## PRACTICE TEST 1 EXPLANATIONS

## Section 1: Reading

1. A This question askes about a major theme of the passage. Because this is a general question, it should be done after the specific questions have been completed. Throughout the passage, the main character speaks of his love for Amy, discusses their relationship, and then worries abour his ability to be a good husband because he might not have any money. Find an answer that's consistent with this prediction. Choice (A) is a solid paraphrase of this structure, so keep it. Choice (B) can be eliminated because the references to money and poverty make the passage about more than unequivocal joy. Choice (C) can be eliminated because it doesn't include any reference to the happiness and love from the first part of the passage. Choice (D) matches the narrator's fear of not succeeding, but like (C), it does not include any mention of love or happiness. Eliminate (D). The correct answer is (A).
2. A This question asks about the narrator's wife and how she responds to his declaration of love. Norice that it is the first question in a paired set, so it can be answered in tandem with Q3. Start with the answers to Q3 first. The lines for (3A) describe Amy as slender fachioned yet gloriously strong: These lines have nothing to do with the narrator's declaration of love, so eliminate (3A). The lines for (3B) say that she spoke with such a sweet decision and that her response was a bond with eternity. These lines support (2A), so draw a line connecting those two answers. Choice (3C) references Amy's wish to become his wife. These lines also might seem to suppore (2A), but there is no actual pledge in (3C) as there is in (3B). Eliminate (3C). The lines for (3D) reference a poem the narrator sent Amy. Although (2D) mentions writing poetry, it is the narrator who writes the poetry, not Anyy. Eliminate (3D). Without support from Q3, (2B), (2C), and (2D) can be eliminated. The correct answers are (2A) and (3B).
3. B (See explanation above.)
4. B This question asks about a technique the author uses to express Amy's desire to marry the narrator. Lines 26-27 say that Amy wished nothing but to become his wift. Use those lines to find the window and read carefully. Within the window, the narator asks Delay? Why should there be delay?'He then goes on to say that Anry wished nothing but to become his wife, so he isn't actually asking for a reason ro delay the marriage. Eliminate any answers that are not supported by the text. Choice ( A ) says that the narrator describes her youthful enthusiasm as a major motivating factor. There is nothing in the window to support chat answer, so eliminate it. Choice (B) says that the narrator presents a bypotherical question that is immediately refuted. This is consistent with the prediction, so keep it. Choice (C) says that the narrator applauds ber decision as a reflection of her unparalleled inner strengch. This is not supported, so eliminate it. Choice (D) refers to her sincerity and dedication fostered by her maidenhood. This is also not supported by the text, so eliminate is. The correct answer is (B).
5. B This question asks about the narrator's book writing as compared with his love-letter writing. In lines 29-31, the narracor says that bis brain burned with visions of the books be would. . write, but bis band was incapable of anything but a love-letter. Therefore, compared to his love-letter writing, his book writing is not happening. Eliminate anything that is not consisrent with chis prediction. Choices (A), (C), and (D) can all be eliminated, because agreable, fiery, and imaginative are not consistent with the prediction. Choice (B), stalled, is the only answer choice consistent with the idea of "not happening." The correct answer is (B).
6. C This question asks about a distinction made between Amy and the narrator. Notice that this is the first question in a paired set, so it can be done in tandem with Q7. Start with the answers to Q7 first. Choice (7A) describes how the narrator sees Amy, that she's beautiful beyond anything his beart could imagine. These lines could support (6B), so draw a line connecting those rwo answers. The lines for (7B) describe Amy's ability to see the narrator's wishes in the simplest as in the greatest things and then acting upon those. These lines describe Amy, but there's no contrast with the narrator. Eliminate (7B). The Lines for (7C) refer to Latin and Greek and state that Amy should learn both, that there might be nothing wanting in the communion.... These lines support (6C), so draw a line connecting those two answers. The lines for (7D) refer to Amy wanting to wair on their honeymoon until the narrator sells his book. Those lines show a contrast berween the rwo characters, but they don'r support any of the answers for Q6. Eliminare (7D). Go back ro rhe two pairs of connected answers and read a litrle more around each set of lines given. Choices (6B) and ( 7 A ) initially seem to connect, but there's no mention of the narrator's common appeal. Choices (6C) and (7C) have a solid connection. The rext refers to bow much she had read, but not Larin and Greek. The lines go on to say that she should learn them... as the old masters. . had been such strength to bim, clearly supporting the contrast between her conventional education and his love of language. The correct answers are (6C) and (7C).
7. C (See explanation above.)
8. A This question asks what wanting most nearly means in line 40. Go back to the text, find the word wanting, and cross it out. Then read the window carefully, using context clues to determine another word that would fit in the text. The text refers to Amy's lack of knowledge about Latin and Greek, and then says that she should learn them, so there might be nothing wanting in the communion between.... The missing word must mean something like "missing" or "failing." Choice (A), larking, is consistent with this prediction. Choices (B) and (D) are both possible definitions for wanting, but they do not fit with the context of the passage. Eliminate both of them. Choice (C), pleasing, is not consistent with "missing" or "Gailing," Eliminate (C). The correct answer is (A).
9. C This question asks about the narrator's use of the phrase what happiness lurked in embryo as it refers to his publishers. Carefully read the window around lines 48-49 to determine what the narrator is saying abour the publishers. He says that for his marriage boliday with Amy, he must get a good price for a book and that the publishers must be kind. He goes on to ask if they know what happiness lurks within their foolish cheque-books. The publishers, therefore, have a lot of power over whether or not Amy and the narrator will be happy, because their marriage holiday is totally dependent on whether or not they give the narrator a good price for his book. The correct answer should be consistent with the idea of "having power." Choice (A) can be eliminated because the narrator is hoping the publishers will be kind, but there's no evidence as to wherher they actually are or not. They might be wealthy, but there's no mention of that in the text, so eliminate (B). Choice (C), influential, is consistent with the prediction, so keep it. Choice (D) might initially look good, because foolish is in the text, but it is not consistent with "having power." Eliminate (D). The correct answer is (C).
10. D This question asks about the function of the final paragraph. Carefully read the paragraph and determine its function in the context of the passage. Throughout the passage, the narrator talks about Amy and his love for her. Then, at the end, he suddenly starts to worry about poverty, finding himself very concerned abour the chilling of brain and heart and the dread feeling of helplessness. This final paragraph describes a concern of the narrator. Eliminate any answer choices that aren't consistent with this prediction. Choice (A) can be eliminated because this paragraph shifts from the narrator's focus on Amy to his concern about poverty. Choice (B) can also be eliminated because there is no mention in the paragraph of long-term effectr...on [his] relatiorship. Although the narrator worries that he cannot support bis wife, he's worried about his ability to support her financially. There is nothing in the text to support revealing his hysteria. Eliminate (C). Choice (D) is consistent with the prediction. The correct answer is (D).
11. A This question asks about the main purpose of the passage. Because it is a general question, it should be done after all the specific questions have been completed. The passage begins with a description of GPS and how it works, and then introduces a problem with GPS. The passage continues by describing a more reliable alternative to GPS called the eLoran system. Eliminate any answer choices that are inconsistent with this prediction. Choice (A) is a clear paraphrase of the prediction. so keep it. Choice ( B ) can be eliminated because how clocks and satelites derermine distance and location is a detail in the passage, not its main idea. Choice (C) can be eliminated because there are no discussions about problems within specific industries. Choice (D) can be eliminated because the main idea of the passage is nor to praise developers. The correct answer is (A).
12. A This question asks what conceived most nearly means in line 13 . Go back to the text, find the word conceived, and cross it out. Then read the window carefully, using context clues to derermine another word that would fit in the text. The passage says thar GPS was initially conceived to aid navigation, but that now ir's a much more critical function of the system. There has been a change in how GPS is used since it was firsr developed. The missing word must mean something like "thought of" or "creared." Choice (A) is consistent with this prediction, so keep it. While anderstood is a possible definition for conccived, the meaning does not fit with the context of the passage, so eliminate (B). The passage does not refer to GPS being either absorbed or accepred, so (C) and (D) can also be eliminated. The correct answer is (A).
13. A This quesrion asks about the purpose of the lines provided. Go back to the window and read carefully to determine why the author included those lines. The lines ask a question abour what would happen if GPS were wiped out. The text then goes on to answer char question with the response, "Nobody knows," These lines present a porential complicarion with GPS, so find an answer consistent with that prediction. Choice (A) is a solid paraphrase of "presenting a potential complication," so keep it. Choice (B) can be eliminated because no corrections are being made. Choice (C) can also be eliminated because nothing is being reconsidered, and (D) can be eliminated because no idea is being undermined. The correct answer is (A).
14. D This question asks abour Lombardi's attitude toward "flying dock radios." Carefully read the window around line 28. After the fying clock radios are mentioned, Lombardi says, "Nobody knows exactly what would happen." He then goes on to say, "there's no back-up." Therefore, Lombardi is a bit concerned about potential problems with the current state of GPS. Eliminate answer choices that aren't consistent with this prediction. Choice (A) can be eliminated because confident is not consistent with concerned. Choice (B) does say that Lombardi is concerned, but then goes on to say that concern comes from not knowing how the radios will interact with eLoran systems. That's not consistent with the prediction, so eliminate (B). Choice (C) mighr initially look artractive because of the phrase no one knows, but the cext says chat no one knows what will happen if the GPS system is wiped out, whereas (C) says no one knows exactly how they work. Additionally, Lombardi is nor annoyed. Eliminate (C). Choice (D) matches the prediction. The correct answer is (D).
15. C This question is the best evidence question in a paired set. Because Q14 was a specific question, choose the answer to Q15 that includes the lines used to make the prediction for Q14. The correct answer is (C).
16. C This question asks what bulk most nearly means in line 34 . Go back to the text, find the word bulk, and cross it out. Then read the window carefully, using context clues to determine another word that would fit in the text. The text says the builk of a more promising...system already exists and then goes on to explain that it's mostly finished. The missing word must mean something like "big part." Eliminate any answers that are not consistent with that prediction. Choices (A) and (B) are potential definitions of bulk, but they aren't consistent with the text. Eliminate both of them. There is evidence in the rext to support the idea that the eLoran system is not completely and totally ready to be used, so (D), totality, is too strong. Choice (C) is consistent with the idea of "big part." The correct answer is (C).
17. B The question asks about the reason for a situation as given by John Garamendi. Use John Garamendi as lead words, and search for them in the window. Carefully read the window around line 57 to determine why Garamendi says America isn't using the rLoran system. In lines 62-65, he says there are two kinds of time, real time...and then federal time, which seems to be the forever time. He goes on to say that although the eLoran system was identified as a backup fifteen years ago... here we are, federal time, not yet done. Therefore, although the technology exists, the federal government is moving slowly and preventing the technology from being used. Eliminate anything that isn't consistent with that prediction. Choice (A) mentions real time, but the problem is not with the eloran system irself. Eliminate (A). Choice (B) is consistent with the prediction, so keep it. Choice (C) can be eliminated because there is no indication in the text that the decision-makers are scared. Choice (D) is not mentioned in the window at all, so eliminate ir. The correct answer is (B).
18. B This is che best evidence question for Q17, which was a specific question containing lead words. The correct answer will be the lines that conrain Garamendi's quote about federal time being slower than real time. The correct answer is (B).
19. A This question asks which group is closest in percentage to the percentage of users 18-29 in May 2011. Look at Gigure 1 to find that $18-29$-year-olds in May 2011 are roughly $60 \%$. Two orher groups are close to that: 30-49 in May 2011 and 50+ in February 2012. Only one of those is an answer choice. The correct answer is (A).
20. D This quesrion asks which statement is supported by figure 2. Go to the figure and eliminate any answer choices not supporred by the dara. Choice ( $A$ ) can be eliminated because the Automotive industry accounts for $39 \%$, which is greater than a third. Choice (B) can be eliminated because Surveying/Mapping is $8 \%$, which is grearer than the 6\% covered by Precision Agriculture. Choice (C) can be eliminated because there is no indication of levels of imporrance. Choice (D) is correct because Automotive and Marine add up to $72 \%$ and the orher industries combined add up to only $28 \%$. The correct answer is (D).
21. C This question asks what additional information would be useful in figure 2 to evaluate the claim that globally synchronized time is a much more critical function of the system. As written, figure 2 shows the percentage of GPS equipment revenue from each industry. There is no indication of how important GPS is to each industry, which would be the information needed to evaluate the claim. Choice (A) can be eliminated because that information would not show the imporrance of GPS in each industry. Choice (B) can also be eliminated, because although it would give information abour each industry, the number of people using GPS doesn't give information about GPS's importance without additional information abour the total number of people in each industry. Keep ( C ) because knowing that a high percentage of an industry relies on GPS would help evaluate the claim that GPS is a critical function. Choice (D) can be eliminated because the amount of revenue does not show how often GPS is used within an industry. The correct answer is (C).
22. D The question asks for the primary purpose of the passage. Because this is a general question, it should be done after all of the specific questions. The passage discusses the receding of the Dead Sea, suggests that water policy is a cause of the decline, and outlines some possible solutions. Eliminate (A) because ir does not include any discussion of the Dead Sea. In addition, although the passage discusses water policy, it does not discuss how the governments create water policy. Eliminate (B) because the many species of plants, fish, and mamnald that live in the Dead Sea region are discussed only in the first paragraph of the passage. Eliminate (C) because, although the passage does explain the consequences of continuing current water policy in the Dead Sea region, this choice does not include the passage's discussion of solutions. Keep (D) because ir includes borh the cause of the decline and a passible remedy. The correct answer is (D).
23. B The question asks what the word harbor means in line 12. Go back to the text, find the word harbor, and cross it our. Carefully read the surrounding text to determine another word that would fit in the blank based on the context of the passage. The first paragraph states that a balfdozen oases along the shore harbor scores of indigenous species of plants, fish and mammals.... The next sentence states that many birds take refuge here during migrarion. The correct answer should mean something like "give refuge." Eliminate (A): although it might be true that the oases nozrish these animal species, nourish does not mean "give refuge." Keep (B) because shelter is consisrenr with "give refuge." Eliminate (C) and (D) because the oases are neirher "amusing" the animals, nor "thinking carefully" about them. The correct answer is (B).
24. B The question asks why the author mentions Ein Feshka. Look for Ein Feshka, which is first mentioned in line 18 . The beginning of the paragraph briefly describes the history and ecosystems of the Dead Sea region. The last two sentences of the paragraph state that Ein Feshta, a lush expanse of tamarisk, papyrus, oleander and pools of crystal water, was used by the late king Hussein of Jordan as a private playground in the 1950s and early'60s. But as the Dead Sea retedes, she springs that feed the oares are moving along with it; many experts believe that Ein Feshba and other oases could wither away within five years. The author mentions Ein Feshka to transition from describing the area ro talking about a specific problem. Eliminate (A) because Ein Feshla is not mentioned primarily as a bistorical site; the region's ecosystems are emphasized. Keep (B) because this choice describes che transition from a descriprion of the region to a discussion of a problem the region faces. Eliminate (C) because the region's ecorystems are emphasized; the author's purpose is not ro discuss a need for recreation areas. Eliminate (D) because the author is introducing an environmental problem, nor arguing that environmental impacts vary with different types of land use. The correct answer is (B).
25. C The quesrion asks why the author includes both Labor and Likud goverrments in lines 28-33. Use the given line reference to find the window. The second paragraph states that/firom the first years of Israel's existence as a Jewish state.... both Labor and Likud governments have bestowed generous water subsidies on the nation's farmers. Eliminate (A) because, although governments of both parries have had similar water policies, the passage does not state that there was coaperation berween the parties. Eliminate (B) because the passage mentions only two parties; there is not enough support for the statement that the policy is popular among all political partics. Keep (C) because the fact that both Labor and Likud governments have given the water subsidies indicates broad political support. Notice that this choice is similar to (B), but it does not contain wording as strong as all political parties. Eliminate (D) because, although the passage criticizes the current water policy, it does not criticize the politicization of natural resources. The correct answer is (C).
26. D The question asks who or what the water laws favor. Look for references to water laws in the passage. The second paragraph states that both Labor and Likud governments bave bestowed generous water subsidies on the nation's farmers. Eliminate (A) because there is no mention of the tourism indwstry benefitting from the water laws. Eliminate (B): although the passage indicates that the government sets the water laws, it does not state that the water laws faver the government. Eliminate (C) because the passage indicates that environmental activists advocate for eliminating the current water subsidies. Keep (D) because farmers is supported by the second paragraph. The correct answer is (D).
27. A The question asks what can be inferred about the agriculture industry in the Dead Sea region. Natice that the following question is a best evidence question, so this question and Q28 can be answered in tandem. Look at the answers for Q28 firs. The lines for (28A) state that today, agriculture accounts for just 3 percent of Israel's gross national product and uses up to half of itr fresh water. Check the answers for Q27 to see if any of the answers are supported by those lines. They support (27A), which says that the agricultural industry's use of water is disproportionate to its impact on the economy, so connect those two answers. Next, consider the lines for (28B). Those lines state that the region's agricultural lobby is strong, so look to see if those lines support any of the answers for Q27. They are close to (27C), but that choice states that the agricultural industry is the mast powerful influence on regional governments, which is not supported. Eliminate (28B). The lines in (28C) stare thar these facilities will provide as much as 106 billion gallons offresh water annually for agriculural and domestic consumption. This is close to (27D), but it doesn't quite match: the lines in (28C) mention both agricultural and domestic consumption, while (27D) indicates that the agricultural industry alone will soon use more than 100 billion gallons of water from treatnent facilities. Eliminate (28C). The lines in (28D) quote an environmental activist saying, "Israeli agriculture is incredibly mimmanaged." These lines do not support any of the answers for Q27, so eliminate (28D). Wirhour suppore from Q28, (27B), (27C), and (27D) can be eliminated. The correct answers are (27A) and (28A).
28. A (See explanation above.)
29. C The question asks what the author suggests about tourism. Notice that the following question is a best evidence question, so chis question and Q30 can be answered in tandem. Look at the answers for Q30 firsc. The lines for (30A) discuss a location that was wed by the Late king Hussein of Jordan as a private playground in the 1950s and early '60s, but they do not reference rourism, so eliminate (30A). The lines for (30B) discuss the building of wastewater treatment plants and desalination facilities; they do nor reference tourism, so eliminate (30B). The lines for (30C) discuss what farmers could be planting; they don't reference tourism, so eliminate (30C). The lines for (30D) 5ay that the potential tourism-dollar return of a bealthy river and a bealthy Dead Sea outweighs the little return that agriculture offers. Check the answers for Q29 to see if any of the answers are supported by those lines. Choice (29C) is a paraphrase of chis quoce: Tourism may provide more benefit to the Dead Sea region's economy than agriculture currently does. Connect these two answers. Without support from Q30, (29A), (29B), and (29D) can be eliminated. The conrect answers are (29C) and (30D).
30. D (See explanarion above.)
31. A The question asks for the main idea of the final paragraph. Carefully read the last paragraph. The first sentence of this paragraph states that Friends of the Earth is alo taking its message to the farmers themselves-encouraging them to plant crops that use less water and spelling out the advantages of renewed tourism in the area. The final sentence states that the potential tourism-dollar return of a bealthy river and a bealthy Dead Sea outweighs the little return that agriculture offers. Keep (A), since the paragraph discusses new practices that farmers can adopt to use less water, leading to a bealithy Dead Sea. Eliminate (B) because the paragraph does not say that farmers should stop planting crops; it only says that farmers should plant crops that use less water. Eliminate (C) because the passage it does not make a prediction that tourism will soon replace agriculture; it says that the potential tourism-dollar return would be better than the return from agriculture, if the Dead Sea and Jordan River were healthy. Eliminate (D) because the paragraph discusses recommendations for farmers from environmental activists; it does not discuss how farmers are adjusting their prattices. The correct answer is (A).
32. A This question asks what aim mosr nearly means in line 1 . Go back to the text, find the word aim, and cross it out. Then read the window carefully, using contexc clues to determine another word that would fit in the text. The window talks about what charitable people should want: not so much giving with money in hand or religious teaching, but friendly intercourse.. .and the desire to stimulate bope and energy. The author is talking about what the people should want to do, so the missing word must mean something like "goal" or "end game." Eliminate any answers that aren't consistent with this prediction. Choice (A), focus, is consistent, so keep that answer. Choice (B) might initially look attracrive because aim and shot seem to go together, but shot is not consistent with the prediction. Eliminate (B). Choices (C) and (D) can both be eliminared, because neither gift nor ability is a "goal" or "end game" that a person could work toward. The correct answer is (A).
33. C This question asks how Platt suggests society reduce poverty. Notice that this is the first question in a paired set, so it can be done in tandem with Q34. Begin with the answers to Q34. The lines for (34A) say that even the lowest types of humanity can be improved, but the author doesn't specify how. This answer does not support any of the answers for Q33, so eliminate ( 34 A ). The lines for (34B) talk about how those who want to be reformers will study the problem, bur again, this does not support any of the answers for Q33. Eliminate (34B). The lines for (34C) say that someone who wants to be a reformer will tell the poor how they may become less so, and not rob others of what they have. These lines suppore (33C), so draw a line connecting those two answers. The lines for (34D) say that the problem can be solved by regenerationgl the entive sacial fabric through laws, aims, instincrs, and individual cooperarion. Although these lines address the question, they do not support any of the answers for Q33. Eliminare (34D). Wirhour support from Q34, (33A), (33B), and (33D) can be eliminated. The correct answers are (33C) and (34C).
34. C (See explanation above.)
35. A This question asks for the consequence of evenly distributing wealth and property, according to Reason. Notice that this is the first question in a paired set, so it can be done in tandem with Q36. Consider the answers for Q36 first. The lines for (36A) say that the only remaining option is democratizing the monopoly value. This says nothing about a consequence of evenly distributing the wealth among individuals, so these lines do not support any of the answers for Q35. Eliminate (36A). The lines for (36B) say chat such distribution would destroy its productive efficiency. These lines support (35A), so draw a line connecting those two answers. The lines for (36C) advocate for collective ownership and say nothing abour individual ownership. Eliminate (36C). The lines for (36D) do nor discuss any consequences of wealth distribution among individuals, so this answer does not support any of the answers for Q35. Eliminate (36D). Without support from Q36, (35B), (35C), and (35D) can all be eliminated. The correct answers are (35A) and (36B).
36. B (See explanation above.)
37. D This question asks what just most nearly means in line 69. Go back to the text, find the word just, and cross it out. Then read the window carefully, using context clues to determine another word that would fit in the text. The text refers to a worker's just wage, earlier referring to it as the full reward of his labor. Therefore, the missing word must mean somerhing like "fair" or "earned." Choices (A) and (B) can be eliminated right away because neither only nor stricr means "fair." Choices (C) and (D) might both initially look good, but there is no indication that all workers are receiving the same wage. The text says only that the worker will receive the full reward of his habor, or everything he earned for the work he did. This is fair, but not necessarily equal. Eliminate (C). The correct answer is (D).
38. B This question asks how Reason would characterize the position taken by Platt that [m]any of [the poorl prefer to be uncomfortable. Reason says that poverty is caused by men not earning a fair wage and by an uneven discribution of wealth and property. He says that poverty, undeserved and unavoidable, must be the lot of many, while equally undeserved income will be reaped... by many others. Reason sees poverty as a problem with society, not with individuals. Choices (A) and (C) can both be eliminated because Reason does not agree with Platt. Choice (B) is consistent with the rext, so keep it. Choice (D) can be eliminated because Platt's statement is about the poor, not the rich. The correct answer is (B).
39. D This question asks which statement borh aurhors would agree with. Because this is a general question that asks abour both passages, it should be answered after all the questions abour each individual passage, and after any specific questions about both passages have been completed. Choice (A) can be eliminated because neither man believed any solutions would completely solve the problems of poverry. Choice ( B ) can be eliminated because Plate did not believe any measures needed to be taken to redistribute wealth. Reason, on the other hand, did not believe a change of mindset for the poor was needed to solve the problem, so (C) can also be eliminated. Choice (D) is consistent with both authors. The correct answer is (D).
40. B This question asks how both authors would characrerize effective ways to reduce poverty. Because it is a general question about both passages, it should be done after the questions for each individual passage and the specific questions for both passages have been completed. Platt believed that reducing poverty required education of the poor and a change in the way the poor perceive the world. Reason believed that the structure of society reinforced poor and rich classes, and that redistributing wealth and allowing for fair wages would alleviate the problems. Eliminate any answers that aren't consistent with that prediction. Choice ( $A$ ) can be eliminated because, alchough the first part is consistent with Platt, the second part is not consistent with Reason. Choice $\langle\mathrm{B})$ is consistent with the prediction, so keep it. Choice (C) can be eliminated because Reason advocated for a fair wage, not Platt. Choice (D) can also be eliminated because Reason did believe that unearned riches were a fearure of society, bur not that they were necessary. The correct answer is (B).
41. C This question asks what Platt would say was necessary for Reason's readjustment of distribution to be effective. Platt's focus in Passage 1 was about shifting the mindset of the poor and helping chem learn that they don't actually want to be poor. The correct answer should be consistent with that viewpoint. Eliminate (A) because chat is Reason's idea, not Platt's. Choice (B) can also be eliminated, because Platt does not say anything about evenly distributing profits from property sales. Choice (C) is consistent with Platt's point of view, so keep it. Choice (D) can be eliminated because Platt does not advocate for increasing the number of jobs. The correct answer is (C).
42. D This question asks how the main focus of the passage shifts. Because this is a general question, it should be done after the specific questions. The passage begins with a discussion of the first public airing of Darwinian evolution and how it caused almost no stir whatsoever. Ir concinues with how Darwin finally managed to drum up some controversy, both with religious-leaning folks and other scientists who were less than thrilled with some of the missing pieces of Darwin's research. The passage ends with a discussion of how Darwin's work laid the foundation for orher researchers to come along in later years and fill in the gaps. Find an answer choice that's consistent with that prediction. Choice ( $A$ ) can be eliminated because the passage does nor discuss Darwin's life. Choice (B) can be eliminated because, although the passage does contain both critizism and support for his theory, it does not shift from one to the other. Choice (C) can be eliminated because the other scientists did not facilitate that mystery's resalution. Choice (D) is consistent with the predietion. The correct answer is (D).
43. A This question asks why Darwin's intellectual comperitors took iswe with his wark. Notice that although it's the first question in a paired set, it's a specific question. Q45 gives a line reference in the second paragraph, so you can be confident that questions 42 and 43 will be answered in the first paragraph, since questions go in consecutive order. So skim the first paragraph to find something about Darwin's intellectual competitors. Lines 11-12 say that scientiffc rivals called attention to the gaps in his evidence. Eliminate any answer choices that aren't consistent with this prediction. Choice (A) is a direct paraphrase of the prediction, so keep it. Choice (B) can be eliminated because although the texr mentions clergymen who condemned the work, the question asks about the intellectual comperitors rather chan the church. Choice (C) can be eliminared because the passage does nor discuss whether readers were offended. Choice (D) might initially look good, but read carefully. Ir was his allies who applauded it as a uniffing bredktbrough, not his rivals. Eliminate (D). The correct answer is (A).
44. B This is the best evidence quescion for a specific question. Choose the answer that includes the lines used to predict the answer to Q43: scientific rivals called attention to the gaps in his evidence. The correct answer is (B).
45. D This question asks about the purpose of the reference to the lions in the second paragraph. Use the line reference to find the window and read carefully. The text describes Darwin's theory of nature rewarding the faster and stronger, and then gives an example of an antelope that is slightly faster or more alert. Its neighbors would be earen by lions first, granting ithe antelopel one more day to live and reproduce. Over time, the fastest antelopes reproduce, making more of the faster antelopes. Thus, the lions are mentioned in order to provide a specific example of Darwin's theory. The correct answer should be consistent with this prediction. The reference is there neither to disprove nor reject, so eliminate (A) and (C). Choice (B) can be eliminated because no completely new idea is being introduced. Choice (D) matches the prediction. The correct answer is (D).
46. B This question asks whar rechnique the aurhor uses to advance the main point of the chird paragraph. Go back to the third paragraph and read carefully. The author begins the paragraph with a question, asking about the source of variation and the mechaniom for passing change from generation to generation. He then goes on to say that Darwin didn't know. Eliminate any answer choices that aren't consistent with this prediction. Choice (A) can be eliminated because the author is not ponderfing] an unproven passibility. Choice (B) is consistent with the text. Keep it. Choices (C) and (D) can be eliminated because the aurhor is neither presenting a criticism nor undermining the importance of Darwin's theory. The correct answer is (B).
47. D This question asks about those who criticized Darwin's work when it first came out. Notice that this is the first question in a paired set, so it can be done in tandem with Q48. Consider the answers to Q48 first. The lines for (48A) say that Darwin's book sold out its first press run. These lines have norhing to do with chose who criticized Darwin's work, so eliminate (48A). The lines for (48B) say that the one who made real progress was Mendel. Although these lines mention another scientist, which could initially make (47A) look like a good match, there is no indicarion che critics were misguided in atracking a scientife discovery. Eliminate (48B). The lines for (48C) say that an objecrion certainly applied to the paucity of.. fossils. These lines support the ideas in (47D), both that the critics had a point, and that there was a lack of evidence (pazacity means "lack"). Draw a line connecting these two answers. The lines for (48D) state that there has been an explosion of finds in the last 30 years, which does not support any of the answers for Q47. Eliminate (48D). Without support from Q48, (47A), (47B), and (47C) can all be eliminated. The correct answers are (47D) and (48C).
48. C (See explanation above.)
49. B This question asks what born of most nearly means in line 71. Go back to the text, find the phrase born of, and cross it our. Then read the window carefully, using context clues to determine anorher word or phrase that would fit in the cext. The rext talks about anthropologists who depicted buman evolution as. . a straight line from a crouching proto-ape through successive stages. . .to modem buman beings. The text goes on to say it was a fairly simple picture that was born from ignorance, because in the last 30 years there has been an explosion of new finds. Therefore, the missing phrase must mean someching like "came from" or "started with." Eliminate any answer choices that aren't consistent with this prediction. Choice (A) can be eliminated because the simplicity was not carried by ignorance. Choice (B) is consistent with the prediction, so keep it. Choices (C) and (D) can both be eliminated because the ignorance itself wasn't doing anything, and neither possessed by nor admitted to is consistent with the prediction. The correct answer is (B).
50. C This question asks what purpose the graph serves in relarion to the passage as a whole. Consider the graph. It shows a timeline from 1800 to past 2000, indicating the cimeframes berween the discovery of a fossil and the naming of the species. The label indicates that Darwin's On the Origin of Species was published in 1859. Eliminate any answers that are inconsistent with the information provided. Choice (A) can be eliminated because there are no specifics in the graph about either Mendel's or Darwin's discoveries. Choice (B) can also be eliminated because there is nothing that provides indisputable evidence to prove Darwin's theories. Choice (C) is consistent with the graph, because the graph shows the discoveries of multiple species after Darwin published his work. Keep (C). Choice (D) can be eliminated because there is nothing on the graph chat indicates similarities or differences between species. The correct answer is (C).
51. B This question asks which statement is best supported by the graph. Eliminate anything that is inconsistent with the information in the graph. Choice (A) can be eliminated because only one fossil discovery is marked on the graph before 1859. Choice (B) is consisrent with the graph, because there was less time between discovery and naming of the fossils in Tanzania than there was for the fossils discovered in Kenya. Keep (B). Choice (C) can be eliminated because one Paranthropus was discovered in Tanzania and another was discovered in Kenya. Choice (D) can be eliminated because it took scientists longer to name Australopithecws garhi than it did for them to name Australopithecus afarensis, even though the garbi species was found after the afarensis. The correct answer is (B).
52. A This question asks what can be supported about anthropologists' depiction of the "March of Progress" based on the passage and the graph. Lines $65-70$ say that anthropologists once depicted human evolution as a version of the clavic "March of Progress" image-a straight line from a crouching proto-ape...culminating in upright humans beings. The rext goes on to quote a contemporary biological anthropologist saying that it was a fairly simple picture, but..it was a simplicity born of ignorance. Choice (A) is consistent with both the graph and the passage, so keep it. Choice (B) can be eliminated because the cext says thar the image was born of ignorance. Choice (C) can also be eliminated because the image is incorrect, so it does nor prove anything. Choice ( $D$ ) can be eliminated because the image does not undermine any discoveries. The correct answer is (A).

## Section 2: Writing and Language

1. D The vocabulary is changing in the answer choices, so the question is testing word choice. Look for a word whose definition is consistent with the orher ideas in the sencence. The sentence discusses funding for the agency and that there is a debate about it, so the definition should mean "topic" or "focus." Proxagonist means "the main character," so eliminate (A). Significance means "importance" or "meaning," so eliminate (B). Discipline can mean "punishment" or "branch of knowledge," so eliminate (C). Subject means "topic," so keep (D). The correct answer is (D).
2. A Verbs are changing in che answer choices, so the question is testing consistency of verbs. A verb must be consistent with its subject and with the other verbs in the sentence. The sentence says while others object, so the correct verb will be consistent with object, which is present tense. Think is consistent with object, so keep (A). Thought and would think are in the past tense, so eliminate (B) and (D). Thinking makes the idea incomplere, so eliminare (C). The correct answer is (A).
3. C Transitions are changing in the answer choices, so the question is testing consistency of transitions. The transition should connect the ideas in the previous and current sentences. The previous sentence discusses critics and others who object to the nature of some of the projects that receive funding. The current sentence says that the agency provides important services and bas had a notable impact on American culture. The ideas in the sentences are opposice, so look for a transition that changes the direction of the ideas. Therefore and likewise keep the ideas in the same direction, so eliminate (A) and (B). However changes the direction, so keep (C). For instance introduces an example, so eliminate (D). The correct answer is (C).
4. A The number of words is changing in the answer choices, so the question is testing concision. First determine whether the phrases before overlooked are necessary. Removing the phrases does not change the meaning of the sentence, so the phrases are nor necessary. Eliminate (B) and (D). Oversight is not consistent with left behind, so eliminate (C). The correct answer is (A).
5. C Punctuation is changing in the answer choices, so the question is resting STOP and GO punctuation. Use the Vertical Line Test to identify the ideas as complete or incomplete. Draw the vertical line between Tutankhamen and and. The phrase Among the most notable projects that have been funded by the NEH over the last 50 years are the Ken Burns documentary The Civil Wars the blockbuster Metropolitan Museum of Art exhibition "Treasures of Tutankhamen" is an incomplete idea. The phrase sixteen Pulitzer Prize-winning books is an incomplete idea. STOP punctuation cannot be used for two incomplete ideas, so eliminate (A). Choice (B) places the STOP punctuation after and. Even with the new placement, both phrases are incomplete ideas, so eliminate (B). Comma placement in (C) and (D) is changing, so check for the four ways to use a comma. The sentence concains a list. The comma should go before and, so eliminate (D). The correct answer is (C).
6. B Verbs are changing in the answer choices, so the question is testing consistency of verbs. A verb must be consistent with its subject and with the other verbs in the sentence. The subject relating to the verb is $N E H$ grant money, which is singular. This does not immediarely eliminate any answer choices. The other verbs in the sentence are argue and is. Which has creates an incomplete idea, so eliminate (A). Has is consistent with the other verbs, so keep (B). Having and to bave are not consistent with the other verbs, so eliminate (C) and (D). The correct answer is (B).
7. D The phrases are changing in the answer choices, so the question is testing word choice. There is also the option to DELETE; consider this choice carefully, as ic's often the correct answer. The three choices-likewise, in the same way, and comparably-basically mean the same thing. The sentence already uses the word similarly, so there's no need to repeat the idea. The phrase should be deleted to make the sentence more concise. The correct answer is (D).
8. C Note the question! The question asks whether the sentence should be added, so it's resting consistency. If the content of the new sentence is consistent with the ideas surrounding it, then it should be added. The paragraph discusses the NEH grant money's positive impact on local economies and the example of Jamestown and the new local tourist industry. The new sentence discusses the history of Jamestown, which is not consistent with the ideas in the text. Therefore, the sentence should not be added. Eliminate (A) and (B). Keep (C) because it states that the new sentence blurs the focus of the paragraph. Eliminate (D) because ir does nor undermine the ideas in the paragraph. The correcr answer is (C).
9. A Note the question! The question asks which choice sets up the quote, so it's testing consistency. The correct choice should be consistent with the idea in the quote. The quote says Science and technology are providing us wizh the means to travel swiftly. But what course do we take? This is the question that no computer can answer. Look for the choice that is consistent with che idea of caution about technology. Choice (A) is consistent, so keep it. There is no mention of the bumanities, so eliminate (B). The quote does not discuss funding, so eliminate (C). There is no mention of public art in the quote, so eliminate (D). The correct answer is (A).
10. C The vocabulary is changing in the answer choices, so the question is testing word choice. Look for a word whose definition is consistent with the other ideas in the sentence. Weather refers to conditions in the atmosphere, while whether indicates multiple options, so eliminate (A) and (B). Too means "also," so eliminate (D). The correct answer is (C).
11. B Note the question! The question asks where sentence 1 should be placed, so it's testing consistency. Determine the subject matter of the sentence, and find the orher sentence that also discusses that information. Sentence 1 says that we should not forget Seaborg's words. Sentence 2 introduces Glenn Seaborg and his words. Therefore, sentence 1 should follow sentence 2 . The correcr answer is ( B ).
12. D The punctuation is changing in the answer choices, so the question is testing STOP and GO punctuation. Use the Vertical Line Test and identify the ideas as complete or incomplete. Draw the vertical line berween commonplace and a 2013 study. The phrase Tuirion assistance programs are commonplace is a complete idea. The phrase a 2013 study showed that $6 I \%$ of U.S. employers offered undergraduate tuition assistance as a benefit—but their gaals and guidelines vary widely is a complete idea. GO punctuation cannor be used berween two complere ideas, so eliminate (B) and (C). Both STOP and HALF-STOP punctuation can be used so check to see if a dash is needed. Since a 2013 study showed that $61 \%$ of U.S. employers offered undergruduate tuition assistance as a benefir is an unnecessary idea, it needs a pair of dashes around it, similar to a pair of commas. The correct answer is (D).
13. A Verbs are changing in the answer choices, so the question is testing consistency of verbs. A verb must be consistent with its subject and with the other verbs in the sentence. The subject for the verb is companies, which is plural. Sees is singular and is not consistent with the subject, so eliminate (D). Thete are no other verbs in the sentence so check the sentences before and after. Other werbs in those sencences are vary, are taking, and result, which are in the present rense. See, which is also in the present tense, is consistent with the orher verbs, so keep (A). Seeing and bave seen are not consistent with the other verbs, so eliminate (B) and (C). The correct answer is (A).
14. B The number of words is changing in the answer choices, so the question is testing consistency and concision. The sentence contains a list; impraved morale, retention, and the underlined item. Look for an answer choice thar is consistent with the orher two items and does nor contain unnecessary words. Only ( B ) is consisrent and concise. The correct answer is (B).
15. D Note the question! The question asks for a choice that establishes the argument that follows, so it's testing consistency. The following sentence says that Some firms bave instifuted a requirement that employees receiving tuition benefits mist stay with the company for a pecific amount of time after completing their educations. Look for an answer choice that is consistent with the argument. The argument does not discuss cost, types of courses, or productivity, so eliminate (A), (B), and (C). Requiring employees to stay with the company is a way to prevent employees from seeking a pasition at a different company, so the correct answer is (D).
16. C Transitions are changing in the answer choices, so the question is resting consistency of transirions. The transition should connect the ideas in the previous and current sentences. The previous sentence discusses a requirement that employees rectiving tuition benefits must stay with the company for a specific amount of time. The current sentence says that such clauses are bard to enforce. The ideas in the sentences are opposite, so look for a transition that changes the direction of the ideas. In any case, consequently, and additionally keep the same direction, so eliminate (A), (B), and (D). However changes the direction of the ideas. The correct answer is (C).
17. D The punctuation is changing in the answer choices, so the question is testing STOP and GO punctuation. Use the Vertical Line Test and identify the ideas as complete or incomplere. Draw the vertical line between kave and than. The phrase Over $80 \%$ of workers who receive ruition benefits from their employers feel an increaced sense of loyalty stemming from the investment, and they are in fact less likely to leatre is a complete idea. The phrase than the average employee is is an incomplete idea. STOP punctuation cannot be used with an incomplete idea, so climinate (B). The second phrase is not a list or an explanation, so there is no need for HALF-STOP puncruation. Eliminate (A). Check the reasons to use a comma. The sentence does nor contain a list, so check for unnecessary information. The phrase and they are in fact less likely to leave cannot be removed from the sentence, so it is necessary. There is no reason to use a comma, so eliminate (C). The correct answer is (D).
18. A The number of words is changing, so the question is testing concision. Since all the choices discuss loans and basically mean the same thing, choose the answer choice that is most concise. The correct answer is (A).
19. B Puncruation is changing in the answer choices, so the question is testing STOP and GO punctuation. Use the Vertical Line Test and idenrify the ideas as complete ar incomplete. Draw the vertical line between goes and then. The phrase If an employee rakes adruantage of the optional benefit, the thinking goes is an incomplete idea. The phrase then he or she is likely to be a bighly motivated and productive worker is an incomplete idea. Only GO punctuation can be used between two incomplete ideas, so eliminate (C) and (D). Check to see if a comma is necessary. The phrase the thinking goes is 4 nnecessary and needs a pair of commas around it. The correct answer is (B).
20. D The phrases are changing in the answer choices, so the question is testing precision and concision. There is also the option to DELETE; consider this choice carefully as it's often the correct answer. The three choices do not correctly connect the two ideas. The phrase should be deleted to make the sentence more concise. The correct answer is (D).
21. B The vocabulary in the phrases is changing in the answer choices, so che question is resting word choice. The correct choice will be consistent with the ideas and tone of the passage. Choices (A), (C), and (D) are too informal, so they are not consistent with the tone of the passage. The correct answer is (B).
22. D Note the question! The question asks for a description that is accurate based on the figure. Look at the figure and read the title and any labels. The figure shows a pyratrid with four levels. Look for an answer choice that is consistent with the order of the levels. The base of the pyramid is reliable source of talent, so eliminate (A), (B), and (C). The correct answer is (D).
23. B Verbs are changing in the answer choices, so the question is testing consistency of verbs. A verb must be consistent with irs subject and with the other verbs in the sentence. "The other verb in the sentence is have shown, so the correct answer must be consistent with this verb. Only have been is consistent. The correct answer is (B).
24. B Note the question! The question asks for a choice that reinforces the definition of fasr casual, so it's testing consiscency. The paragraph stares that fast caswal...generally refers to restaurants that offer the traditional quick preparation and counter service of fast food at a slightly higher price point, with a focus on fresh, bigh-quality ingredients. Although fast casual has a slightly higher price point than fast food, no information is given about the cost of sit-down restaurants, so eliminate (A). Higher quality and freshness of their ingredients is consistent, so keep (B). There is no mention of salads or burgers, so eliminate (C). The definition does not discuss the obesity epidemic, so eliminare (D). The correct answer is (B).
25. C Punctuacion is changing in the answer choices, so the question is testing STOP and GO punctuation. Use the Vertical Line Test and identify the ideas as complete or incomplete. Draw the vertical line between quickly and driven. The phrase The chain grew quickly is a complete idea. The phrase Driven by customers who were attracted to its fresh menu and sustainably saurced ingredients is an incomplete idea. STOP puncruarion can only be used between two complete ideas, so eliminare (A) and (D). Between the colon and the comma, the comma is the correct choice because it continues the flow of the ideas, whereas the colon sets up a list or a cause and effect relationship, neither of which is present here. The correct answer is (C).
26. D Nore the question! The question asks whether the sentence should be added, so ir's resting consistency. If the content of the new sentence is consistent with the ideas surrounding it, then ir should be added. The paragraph discusses the beginning of the fast casual movement and Chipotle. The new sentence discusses the term fast casual and Horatio Lonsdale-Hards, so it is not consistent with the ideas in the text; the sentence should not be added. Eliminate (A) and (B). Eliminate (C) because it does not entirely blur the focus of the paragraph, but rather adds extraneous details. Keep (D) because it does introduce a new figure in the movement. The correct answer is (D),
27. D The vocabulary is changing in the answer choices, so the question is testing word choice. Look for a word whose definition is consistent with the other ideas in the sentence. The sentence says that spending in the restauranr business declined for wo years, so the definition should mean "consecutive" or "continuous." Unbending means "strict," so eliminate (A). Linear means "straight line," so eliminate (B). Even means "balanced," so eliminate (C). Straight is consistent with "consecutive." The correct answer is (D).
28. D Transitions are changing in the answer choices, so the question is testing consistency of transitions. The cransition should connect the ideas in the previous and current sentences. The previous sentence says that spending in the restaurant business declimed. The current sentence says that during that same period, fast casual business grew by double digits. The ideas in the sentences are opposite, so look for a transition that changes the direction of the ideas. In fact, unsurprisingly, and in other words keep the ideas in the same direction, so eliminate (A), (B), and (C). In contrast changes the direction, so the correct answer is (D).
29. A Commas are changing in the answer choices, so the question is testing the four ways to use a comma. The phrase baving sold its interest in the burrito business in 2006 is unnecessary information, so it should be surrounded by commas. Eliminate (B) because it contains no commas. Eliminate (C) and (D) because each conrains only one comma. The correct answer is (A).
30. D Pronouns and apostrophes are changing in the answer choices, so the question is testing consistency of pronouns and apostrophe usage. A pronoun must be consistent in number with the noun it is replacing. The pronoun refers to the noun company, which is singular. Eliminate (A) and (B) because the pronouns are plural. When an apostrophe is attached to a pronoun, it indicates a contraction. The buns belong to the company, so the possessive pronoun is needed, which does not contain the apostrophe. The correct answer is (D).
31. D Transitions are changing in the answer choices, so the question is testing consistency of transitions. The transition should connect the ideas in the two parts of the sentence. The first part of the sentence introduces one of the bigger problems of fast food. The second part of the sentence names the problem: lack of nutritional value. Look for a cransition that connects the example to the first part of the sentence. Therefore and indeed indicate a continuation, so eliminate (A) and (B). For instance is too general, so eliminate (C). Specifically indicates a particular example. The correct answer is (D).
32. D The punctuation and phrasing are changing in the answer choices, so the question is testing puncruation and precision. The sentence is a statement so it should end in a period; eliminate (A) and (B). The restaurants are not becoming increasingly fast, so eliminate (C). The critics increasingly question, so keep (D). The correct answer is (D).
33. A The number of words is changing in the answer choices, so the question is testing concision. Since all the choices discuss changes over time, choose the answer choice that is most concise. The correct answer is (A).
34. B Note the question! The question asks which choice best combines rhe two sentences, so ir's testing precision and concision. Start with the most concise option, which is (B). Choice (B) is the most concise and there are no errors in consistency or precision. The correct answer is (B).
35. C The phrases ate changing in the answer choices, so the question is testing word choice. The sentence discusses a fight that involved the spectators so the correct choice will mean "started." Amidst means "in the middle of" but doesn't indicate that the spectators were involved, so eliminate (A). Brought is the past tense of "bring," so eliminate (B). Broke out among is consistent, so keep (C). Between is used for two things or groups, but there are more than two spectators, so eliminate (D). The correct answer is (C).
36. A Nore the question! The question asks for the choice thar best esrablishes the main idea of the paragraph, so ir's testing consistency. Read the paragraph to find out the main idea. The paragraph discusses the dissonant mature of the music, the awhward, ungracefil movements of the dancers, the theme that may also have wpset some viewers, and the negative reception. The audience reacting stromghy
is consistent, so keep (A). There is no explanation for why Stravinsky composed the music, so eliminate (B). The police are mentioned in the previous paragraph but not in this one, so eliminate (C), The paragraph does not discuss Russian folk traditions, so eliminate (D). The correct answer is (A).
37. D Commas are one thing changing in the answer choices, so the question is testing the four ways to use a comma. Make sure ro read all the way until the end of the senrence. The phrase a pagan ritual in which a virgin sacrifices herself to the god of spring is unnecessary information, so it should be surrounded by commas. Eliminate (A) and (C) because they contain no commas. Being is not needed, so eliminate (B). The correct answer is (D).
38. C Commas are changing in the answer choices, so the question is testing the four ways to use a comma. There are no lists or unnecessary information in the sentence. There should be a comma before the quote. The correct answer is (C).
39. B The phrases are changing in the answer choices, so the question is testing word choice. The sentence says that the eyewitness accounts are contradictory, so the phrase means "ro understand." Sort of means "not quite right," which is not consistent, so eliminate (A) and (D). To sort our is consistent with "to understand," so keep (B). For sort out is not a cortect phrase, so eliminate (C). The correct answer is (B).
40. D Transirions are changing in the answer choices, so the question is testing consistency of transitions. The transition should connect the ideas in the previous and current sentences. The previous sentence says that descriptions of the level of disruption and violence increase as the accounts get further away from the actual event. The current sentence says that it's likely that stories of the riat have gotten exaggerated over time. The ideas in the sentences are the same, 50 look for a transition that keeps the same direction of the ideas. On the other band changes the direction, so eliminate (A). As a result Indicates a consequence of an action, which is inconsistent, so eliminate (B). At the same time refers to events occurring simultaneously, which is nor consisrent, so eliminate (C). In other words is consistent with keeping the same ideas. The correct answer is (D).
41. A Note the question! The question asks for an answer choice that helps to explain the different views of the eraditionalists and modernists, so it's testing consistency. Look for a choice that is consistent with the different views of the two groups. Choice (A) mentions both traditionalists and modernists and their different views of the Eiffel Tower, so keep (A). Choices (B), (C), and (D) do not mention the traditionalists and modernists, so eliminate them. The correct answer is (A).
42. D The phrases are changing in the answer choices, so the question is testing precisiont. The sentence says that Diaghile likely caused members of both groups, which indicates an action that should have a result. The correct answer will complete the idea. Only to believe correctly finishes the idea by providing the resulc. The correcr answer is (D).
43. C Note the question! The question asks for the choice that signals that the result was expected by the author, so it is testing precision. Not unsupprising is another way of saying "surprising," so eliminate (A). Both surprising and unusual indicate that the result was unexpected, so eliminate (B) and (D). The correct answer is (C).
44. B Note the question! The question asks where sentence 5 should be placed, so it's testing consistency. Determine the subject matter of the sentence, and find the orher sentence that also discusses that information. Sentence 5 introduces Serge Diaghiled. Sentence 2 says that be actually planted someone to start shouting. Since there is no noun that be can refer to, sentence 5 must come before sentence 2. The correct answer is (B).

## Section 3: Math (No Calculator)

1. D The question asks for an equivalent expression. There is a variable in the answer choices, which usually indicates an opportunity to plug in. However, the algebra is straighrforward here, so it is probably better to solve this one. Start by distributing the 2 to ger $10+2 x-14$, then combine like terms to get $2 x-4$. The correct answer is (D).
2. C The question asks for the ordered pair that satisfies the system of equations. Because there are possible ordered pairs in the choices, plug in the answers. Because the second equation is simpler, begin by plugging each of the choices into that equation. For (A), this becomes $0=-7+7$. This is true, so $\operatorname{kecp}$ (A). For (B), this becomes $27=4+7$. This is false, so eliminate (B). For (C), this becomes $7=0+7$. This is true, so keep (C). For (D), this becomes $9=-18+7$. This is false, so eliminate (D). Plug each of the two remaining choices into the first equation. For (A), this becomes $3(0)-\frac{-7}{3}=21$. This is false, so eliminate (A). For (C), this becomes $3(7)-\frac{0}{3}=21$. This is true, so keep (C). The correct answer is (C).
3. B The question asks for the meaning of the variable $b$ in the situation. Start by labelling the parts of the equation. The variable a represents the number of bours...doing bomework each week, and the number 15 represents hours daing homework or watching television each week. This makes the equation number of hours doing homework $+b=$ bours doing honrework or watching television each week. Next, go through the answers and use POE. Choice (A) relates doing homework and watching television to each other, but no information is given about the specific number of hours spent on each activity. Eliminate (A). Choice (B) fits the labeling of the equation; keep (B). Choice (C) can be eliminated because the question states that this is represented by $a$. Choise (D) can be eliminated because the question stares that this is 15 . The correct answer is (B).
4. A The question asks for the value of the computer after 6 years. Begin by ballparking. Since 6 is more than half of 9 , after 6 years, the computer will have lost more than half irs value. Thus, the value of the compurer must be less than half of its original value. Half of the original value is $\$ 4,590 \div 2=\$ 2,295$. Eliminate (B), which is exactly half, and (C) and (D), which are more chan half. The only value that remains is (A), so it must be correct. To verify the value of the computer after 6 years, determine the constant rate by which it decreases in value. Since the compurer has no monetary value after 9 years, it takes 9 years for it to lose its entire value of $\$ 4.590$. Therefore, the rate of decrease in value is $\frac{\$ 4,590}{9}$ years $=\$ 510$ per year. After 6 years, the value of the computer decreases by $\$ 510 \times 6=\$ 3,060$. The value after 6 years is obtained by subcracting this amount from the original value to ger $\$ 4,590-\$ 3,060=\$ 1,530$. The correct answer is (A).
5. B The question asks for an equivalent expression. Rather than getring mixed up with all the negatives, work using Bire-Sized Pieces and use POE. All four answer choices have different $i$ rerms, so stars there. The first part of the expression has $10 i$, and the second part has $-3 i$. There is a subtraction sign in between, so the $i$-cerms become $10 i-(-3 i)$, or $10 i+3 i=13 i$. The only answer with a positive $13 i$ is ( B ). The correct answer is (B).
6. D The question asks for the value of the function for a given $x$ value. To find $f(-2)$, plug -2 into the function in place of $x$. Therefore, $f(-2)=\frac{(-2)^{2}+4(-2)-8}{-2-2}$. Simplify to get $f(-2)=\frac{4+(-8)-8}{-4}=\frac{-4-8}{-4}=\frac{-12}{-4}=3$. The correct answer is (D).
7. D The question asks for the system of inequalities that describes the situation. Because there is a lor of information in the question, solve using Bite-Sized Pieces. Start with the most straightforward piece. The question states that Heinrich must buy ar least 20 shares of Stock $X$. The term at Least translates to $\geq$. Since a represents the number of shares of Srock $X$, the correct answer must include $a \geq 20$. Eliminate the choices that do nor include this inequality, which are $(A)$ and (B). Look at the two temaining choices and find the differences berween them. The only difference between (C) and (D) is that (C) includes the inequality $a+b \leq 100$, while (D) includes the inequality $a+b \geq 100$. According to the question, Heinrich must buy ar least 100 rotal shares. Therefore, the total number of shares must be $\geq 100$. Eliminate (C). The correct answer is (D).
8. A The quesrion asks for an equivalent expression. Since there is a variable in the choices, plug in. Let $x=5$. If $x=5$, then the original expression becomes $x^{2}-8 x+5=5^{2}-8(5)+5$. Apply the exponent and multiply to get 25-40+5, which equals -10 . The target value is -10 ; circle ir. Go through each choice, make $x=5$, and eliminate any that doesn't equal -10 . Choice $(A)$ is $(5-4)^{2}-11$, which is $1^{2}-11$. This equals $1-11$ or -10 . Kcep (A), bur check the remaining answers just in case. Choice $(\mathrm{B})$ is $(5-4)^{2}+11$, which is $1^{2}+11$. This equals $1+11$ or 12 . Eliminate $(\mathrm{B})$. Choice $(\mathrm{C})$ is $(5+4)^{2}-11$, which is $9^{2}-11$. This equals $81-11$ or 70 . Eliminate (C). Choice (D) is $(5+4)^{2}+11$, which is $9^{2}+11$. This equals $81+11$ or 92 . Eliminate (D). The correct answer is (A).
9. B The question asks for the least number of photographs Juliet must seli. Since the question asks for a specific value and there are numbers in the answer choices, plug in the answers. Start with the smallest value, which is in (A). According to the question, Juliet sells the first 20 photographs for $\$ 10$ each. Therefore, she takes in a total of $20 \times \$ 10=\$ 200$. If Juliet sells an additional 18 photographs for $\$ 15$ each, she will bring in an additional $18 \times \$ 15=\$ 270$. Therefore, she brought in a total of $\$ 200+\$ 270=\$ 470$. She earns a profic of $80 \%$ of her revenues, so she earns $\frac{80}{100} \times \$ 470$, which is $\frac{4}{5} \times \frac{\$ 470}{1}$. This can be simplified to $\frac{4}{1} \times \frac{\$ 94}{1}$, which equals $\$ 376$. She must earn at least $\$ 460$ in profit, so this answer is too small. Eliminate (A). Try (B). She still makes $\$ 200$ on the first 20 photographs. If she sells 20 additional photographs, she takes in an additional $20 \times \$ 15=\$ 300$, for a total of $\$ 200+\$ 300=\$ 500$ in revenues. She earns a profir of $80 \%$ of the revenues, which is $\frac{80}{100} \times \$ 500=\frac{4}{5} \times \$ 500=\$ 400$. This matches the goal of at least $\$ 400$. Therefore, the correct answer is (B).
10. A The question asks for an equivalent expression. Solve this question using Bite-Sized Pieces, working with one variable at a time. Because the expression divides variables with exponents, use the MADSPM rule of Division-Subtract. Subtract the exponents on the $p$ terms to ger $\frac{p^{\frac{1}{4}}}{p^{-2}}=p^{\frac{1}{4}-(-2)}=p^{\frac{1}{4}+2}$. Both parts of the exponent are positive, so the $p$ rerm should be in the numeraror. Unfortunately, this doesn't eliminate any answers. MADSPM rules indicate that Addition means Multiplication, and a fractional exponenc is a power over a root. Therefore, the numerator must include $p^{2}$ multiplied by $\sqrt[4]{p}$. Only (A) has $p^{2} \sqrt[4]{p}$ in the numerator. Eliminate the choices that do not include this: (B), (C), and (D). Only one choice remains, so there is no need to continue. However, to see why ( A ) is correct, follow the same process for $q$. Subtract the exponents in $\frac{q^{-3}}{q^{\frac{1}{2}}}$ to get $q^{-3-\frac{1}{2}}$. Both parts of the exponent are negative, so $q$ term should be in the denominator. To determine what the denominator should be, factor a negative from the exponent ro get $q^{-\left(3+\frac{1}{2}\right)}$. Once again, use MADSPM rules to get that the denominator must be $q^{3}$ multiplied by $\sqrt{q}$. Therefore, the expression simplifies to $\frac{p^{2} \sqrt[4]{p}}{q^{3} \sqrt{q}}$. The correct answer is ( $A$ ).
11. C The question asks for the interval containing the $x$-coordinate of the verrex of a parabola. The vertex of a parabola is always on the axis of symmetry, which is located halfway between the roots of the parabola. To find the roots, set $g(x)=0$ to get $0=(x-2)(x-4)$. Set both factors equal to 0 to get $x-2=0$ and $x-4=0$. If $x-2=0$, then $x=2$. If $x-4=0$, then $x=4$. Since the axis of symmerry is halfway between the roots, it is $x=\frac{2+4}{2}=\frac{6}{2}=3$. Therefore, the $x$-coordinate of the vertex is 3 . Select the choice char includes $x=3$. The correct answer is (C).
12. D The question asks for a factor of a polynomial. The equation is given as $x a^{3}+y a^{2}+z a=0$, but it is not necessary to deal with the equation in this question because the question asks for a factor of the equation, not to solve for $x$, $y$, or $z$. An equation is divisible by its factors, which means the factors multiply to each orher to give the equation. If the equation has roots $-6,0$, and 4 , then when $a=-6,0$, or 4 , the equation is rrue (in this case, the left side is equal to 0 ). In order to make the lefr side equal to zero, at least one of the factors must be equal to zero. Therefore, to find a factor of the equation, plug the roots into the answer choices for $a$ until one of the choices equals 0 . It's easier to use positive numbers, so start with 4. Plugging 4 into each of the answer choices for $a$ doesn't give 0 for any answer, so cry -6 instead. When $a=-6$, (D) equals $-6+6$, which is 0 . This means that $a+6$ is a factor of the equacion. The correct answer is (D).
13. B The question asks for the value of $c$ when an expression containing $c$ is rewritten into another form. Therefore, these two forms can be set as equal to ger $\frac{1}{2} x^{2}-5=\frac{1}{2}(x+c)(x-c)$. Since this is an equation with $x$ and $c$, and the question asks for $c$, plug in for $x$. Let $x=2$. Plug $x=2$ into the equation to get $\frac{1}{2}\left(2^{2}\right)-5=\frac{1}{2}(2+c)(2-c)$. Simplify the left side to get $\frac{1}{2}(4)-5=\frac{1}{2}(2+c)(2-c)$, then multiply to get $2-5=\frac{1}{2}(2+c)(2-c)$. Subtract on the left side to get $-3=\frac{1}{2}(2+c)(2-c)$. Multiply borh sides by 2 to get $-6=(2+c)(2-c)$. Use FOIL on the right side to get $-6=4-\epsilon^{2}$. Subrract 4 from borth sides to get $-10=-c^{2}$. Divide both sides by -1 to get $10=c^{2}$. Take the square roor of both sides to get $\pm \sqrt{10}=c$. Since the question specifies that $c$ is a positive constant, the only possible value of $c$ is $\sqrt{10}$. It is also possible to plug in the answers and simplify the equation, but that might be more time-consuming. The correct answer is (B).
14. A The question asks for an equivalent expression. Because there is a variable in the question and choices, plug in. Choose a value that makes the anithmetic easier. Let $z=-1$, because the denominators of most of the fractions will equal 1 . If $z=-1$, then the original expression becomes $\frac{z^{2}+7 z-3}{z+2}=\frac{(-1)^{2}+7(-1)-3}{-1+2}$, which is equal to $\frac{1-7-3}{1}=-9$. This is the target value; circle it. Go through each choice, plugging in $z=-1$ and eliminating any choice that is not equal to -9 . Choice (A) is $-1+5-\frac{13}{-1+2}=4-13=-9$. Keep (A), but check the remaining answer just in case. Choice (B) is $-1+5-\frac{7}{-1+2}=4-7=-3$. Eliminate (B). Choice (C) is $-1+9-\frac{21}{-1-2}=8+7=15$. Eliminate (C). Choice (D) is $-1+9-\frac{15}{-1-2}=8+5=13$. Eliminate (D). The correct answer is (A).
15. D The question asks for an inequality that shows the allowable depth of a pool. Set up an inequality that describes the restriction. Each of the choices indicates that $0<a$, so it is only necessary to determine the upper limir of the inequality. The sum of the length of the pool and the perimeter of the vertical side cannor exceed 200 meters. The perimeter is $2 w+2 d$, so the sum of the length and the perimeter is $l+2 w+2 d$. The term cannot exceed translates to s, so $l+2 w+2 d \leq 200$. The length of the pool is 75 and the depth is $a$, so $75+2 w+2 a \leq 200$. The width is 1.5 times the depth, so $75+2(1.5 a)+2 a \leq 200$. This simplifies to $75+2 a+3 a \leq 200$. Combine like terms to get $75+5 a \leq 200$, then subtract 75 from both sides ro get $5 a \leq 125$. Divide both sides by 5 to get $a \leq 25$. The correct answer is (D).
16. 10 The question asks for the degree measure of $\angle B C D$, which is part of triangle $B C D$. First, mark the information given by the question. Mark $A B=B D=C D$ and $A D=15$ in the figure. Since $A B=B D$, triangle $A B D$ is isosceles. Therefore, $\angle B D A$ is also equal to $20^{\circ}$. Since $\angle B D C$ is adjacent co $\angle B D A$, forming a straight angle, the measures of the rwo angles have a sum of $180^{\circ}$. This means that $\angle B D C=180^{\circ}-20^{\circ}=160^{\circ}$. Since $B D=D C$, triangle $B C D$ is also isosceles. Label $\angle B C D$ and $\angle C B D$ as $x$. There are $180^{\circ}$ in a criangle, so $160^{\circ}+x+x=180^{\circ}$. Therefore, $2 x=20^{\circ}$ and $x=10^{\circ}$. The correct answer is 10 .
17. 7 The question asks for the value of an expression. There are two possible approaches to this question, One is to solve for $b_{1}$ and then plug that value into the expression $5-b$. The orher approach is to notice that the given expression $15-3 b=21$ can be factored to $3(5-b)$. Therefore, the original equation can be rewritten in form $3(5-b)=21$. Divide both sides by 3 to get $5-b=7$. Using either approach, the correct answer is 7.
18. 6 The question asks for the value of $k$, which is the $y$-coordinate of a point on a line. Use the other two points to find the equation of the line, in the form $y=m x+b$, where $m$ is the slope and $b$ is the $y$-intercept. To find the slope, use formula $m=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}$ to get $m=\frac{12-0}{0-(-4)}$, which is $\frac{12}{4}$ or 3 . Plug $m=3$ into the line equation to get $y=3 x+b$. The $y$-intercept is the point where the line crasses
the $y$-axis, or where $x=0$. The question gives this value as 12 , so che full equation of the line is $y=3 x+12$. To find the value of $k$, plug $(-2, k)$ into the equation to $g e t=3(-2)+12$. Simplify the right side to get $k=-6+12=6$. The correct answer is 6 .
19. 8,244 The question asks for the value of $d-c$, where $d$ and $c$ are coefficients in an equivalent form of the given expression. To simplify the expression, start by distributing 10 to get $30 x^{2}-1,500+9,844+50 x^{2}$. Combine like terms to get $100 x^{2}+8,344$. Since the expression is now in the form $c x^{2}+d, c=100$ and $d=8,344$. The value of the expression $d-c$ is $8,344-100=8,244$. The correct answer is 8,244.
20. 540 The question asks for the value of $n$, which is the number of degrets in an angle measuring $3 \pi$ radians. To convert from degrees to radians, use the fact that 180 degrees is equal to $\pi$ radians. Set up the proportion $\frac{n^{\circ}}{3 \pi \text { radians }}=\frac{180^{\circ}}{\pi \text { radians }}$. Cross-multiply to ger $540 \pi=\pi n$. Divide both sides by $\pi$ to get $n=540$. The correct answer is 540 .

## Section 4: Math (Calculator)

1. B The question asks for the maximum number of times a homeowner can edge his lawn given a certain fuel requirement. Use proportions to determine the maximum number. There are 1,000 milliliters per 1 liter, and he has 8 liters of fuel. Set up a proportion to find how many milliliters of fuel he has: $\frac{1,000 \text { milliliters }}{1 \text { liter }}=\frac{x \text { milliliters }}{8 \text { liters }}$. Cross-multiply to ger $x=8,000$. Therefore, he has 8,000 milliliters of fuel. Next, set up a proportion to find how many rimes he can edge his lawn if the edger uses 160 milliliters of fuel each time: $\frac{160 \text { milliliters }}{1 \text { time }}=\frac{8,000 \text { milliliters }}{y \text { times }}$. Cross-multiply to get $160 y=8,000$. Divide both sides by 160 to get $y=50$. The correct answer is (B).
2. C The question asks for the fraction of the studenes in Dr. Soper's class that chose to be graded on the lab report and final exam. A fraction is defined as $\frac{\text { parr }}{\text { whole }}$. For this question, the "parr" is the number of Dr. Soper's students who chose to be graded on the lab report and final exam, which is 3 . The "whole" is Dr. Soper's class total, which is 20. Therefore, the fraction of Dr. Soper"' class that chose to be graded on the lab report and final exam is $\frac{3}{20}$. The correct answer is (C).
3. D The question asks for an equivalent expression to the one given. There are variables in the answer choices, so plugging in is an option. However, the question is straightforward enough to solve withour plugging in. Use Bite-Sized Pieces and Process of Elimination. Start with the $a^{2}$ terms. Combine the terms: $-a^{2}-\left(2 a^{2}\right)=-3 a^{2}$. Eliminate (A) and (B). Next, work the numbers: 4-(-6), which is $4+6=10$. Eliminate (C). The correct answer is (D).
4. B The question asks for the inequalities sarisfied by the ordered pair ( $3,-1$ ), so make $x=3$ and $y=-1$ in each of the inequalities. Roman numeral (I) becomes $3+3(-1)>0$, which is $3+(-3)>0$ or $0>0$. This is false, so eliminate (A) and (C), which both contain (I). Both remaining answers include Roman numeral (II), so rry Roman numeral (III). That inequaliry becomes $3+(-1)<0$, which is $2<0$. This is false, so eliminate (D). The correct answer is (B).
5. A The question asks for an inference that can be made from a given survey, For questions like this, stick closely to the results of the survey and use Process of Elimination. Choice (A) concludes thar few people who like working alone will be unhappy doing this task, which closely matches che group chosen (a group of people who indicated that they preferred to work alone) and the results ( $5 \%$ stated they were unhappy while doing the task). This answer sticks closely to the survey; keep (A). Choice (B) makes an inference about people who do not like working alone; however, the survey collected data only on those who do like working alone, so there is no support for (B); eliminate it. Choices (C) and (D) are about people in general and whether they are working alone, but the survey considered only those people who like working alone; eliminate (C) and (D). The correct answer is (A).
6. C The question asks for a true statement, so go through the answers and use Process of Elimination. Choice (A) compares the pH of two wells, one with half as much bicarbonate as the other, so choose two points on the scatterplot. The well with approximately 150 ppm of bicarbonate has a pH of 7.6 , and the well with approximately 75 ppm of bicarbonate has a pH of 8 . Since 8 is not twice 7.6, this statement is false; eliminate (A). Choice (B) says that wells with more bicarbonate tend to have a higher pH , but according to the line of best fit, pH decreases as bicarbonate increases; eliminate (B). Choice (C) is the opposite of (B) and is supported by the downward trend of the line of best fit; keep (C). Choice (D) is disproven by the clear trend shown by the line of best fit; climinate (D). The correct answer is (C).
7. E The question asks for the pH of a well with a bicarbonate concentration of 225 ppm , so look it up. Go along the horizontal axis to 225 ppm , and go up to the line of best fit. Now trace across the grid line to the vertical axis. It hirs rhe vertical axis between 7.2 and 7.4 , so the pH is approximately 7.3. The correct answer is (B).
8. B The question asks for a specific value, so plug in the answers. It is easy to plug in a value of 0 , so start with (C). The value of $y$ is given in the question, so if $k=0$, the equation becomes $25=$ $[(0)(-2)-1]^{2}$. Muluply in the parentheses to get $25=(0-1)^{2}$, which is $25=(-1)^{2}$ or $25=1$. This is not true, so eliminate (C). It might nor be clear if a larger or smaller number is needed, so pick a direction to go in. Try (B). If $k=-3$, the equation becomes $25=[(-3)(-2)-1]^{2}$. Multiply in the parentheses to get $25=(6-1)^{2}$, which is $25=5^{2}$ or $25=25$. This is true. The correct answer is (B).
9. A The question asks for the number of seconds Andrew waits for the weight rack. Scart by convering 30 minutes to seconds by setting up a proportion: $\frac{1 \text { minute }}{60 \text { seconds }}=\frac{30 \text { minures }}{x \text { seconds }}$. Cross-multiply to get $x=1,800$ seconds. Next, take $35 \%$ of 1,800 seconds by multiplying: $\frac{35}{100} \times 1,800$ or $0.35 \times 1,800$ $=630$ seconds. The correct answer is (A).
10. C The question asks for the value of $x-y z$ with the given equation. Try to isolate those terms. Scart by subtracting 2 from borh sides to ger $8 x-8 y z=72$. Every term is divisible by 8 , so divide both sides by 8 to get $x-y z=9$. Another oprion is ro plug in. Make $y=2$ and $z=3$, so the equation becomes $8 x-8(2)(3)+2=74$. Simplify to get $8 x-48+2=74$ or $8 x-46=74$. Add 46 to both sides to get $8 x=120$, then divide both sides by 8 to get $x=15$. Therefore, $x-y 2=15-(2)(3)=15-6=9$. The correct answer is (C).
11. C The question asks for a specific value and there are numbers in the answer choices, so plug in the answers. Choice (C) is easier to work with than (B), so start with (C). If the original weight of the steak is 10.00 ounces, then the weight of the fat trimmed off would be $12 \%$ of 10.00 , which is $\frac{12}{100} \times 10.00$ or $0.12 \times 10.00=1.20$ ounces. Subtract this from 10.00 to find the weight after trimming the fat: $10.00-1.20=8.80$ ounces. This matches the information in the question. The correct answer is (C).
12. D The question asks for a system of equations that models a certain situation. Use Bite-Sized Pieces, translate from English to math, and use Process of Elimination. Start with the most straightforward piece of information. The backpacker uses a total of 10 granola bars and packets of peanut butter, and $g$ represents granola bars and $p$ represents packers of peanut butter. This means that $g+p=10$. This is not part of any answer choice. In the answer choices, look at the equations that have the number 10. Choices ( A ) and ( B ) include the equation $g-p=10$. This equation is definitely not the same as $g+p=10$. However, (C) and (D) include the equation $g=10-p$. Add $p$ to both sides of the equation to get $g+p=10$, which matches the translation. Eliminate $(\mathrm{A})$ and (B). Nexr, compare the remaining answer choices. Choices (C) and (D) only differ by what $g$ and
$p$ are multiplied by; both remaining equations equal 1,660, which is the total.. food calories. The question states that a packet of peanut butter bas 90 food calories, so 90 should be mulciplied by $p$, not g. Eliminate (C). The correct answer is (D).
13. D The question asks for the number of boards needed to cover a certain floor width. Set up a proportion. Be sure to match the labels on the numerators and denominators: $\frac{10 \text { boards }}{7 \frac{3}{4} \text { feet }}=\frac{x \text { boards }}{32 \text { feet }}$. Cross-multiply to get $7 \frac{3}{4} x=320$. Convert $7 \frac{3}{4}$ to 7.75 to make the division easier. Then divide both sides by 7.75 to get $x \approx 41.3$. The question asks for the closest answer. The correct answer is (D).
14. A The question asks for the statement that is NOT true given the figure. Start by working the figure. The figure shows the time, in hours, along the horizontal axis and the disrance from home, in kilometers, along the vertical axis. Note that the scales on each axis are different. Next, read the final question. The question asks for whar is NOT rrue, so work each answer choice and eliminate any choice that IS true. Choice (A) states that George's distance from home increased at a constant rate for the first hour; however, the distance increased along a curved line, whereas a constant increase would result in a straight line. Furthermore, the increase is only for the first 30 minures; the distance from home decreases after 30 minutes. Therefore, (A) is not true. This is likely the correct answer, but check the remaining ones to be sure. To check ( B ), look for the highest vertical value, which is at 0.5 hours. This is in the first hour, so (B) is true; eliminate it. For (C), a constant distance from home would appear as a horizontal line in the graph. The graph is horizontal between 2 and 3 hours, so the distance from home was constant for one hour. Choice (C) is true; eliminate it. To check (D), go through the graph and add up the time intervals George's distance from home was increasing and check that total against the total time intervals that his distance from home was decreasing. His distance from home was increasing from 0 to 0.5 hours, from 1.5 to 2 hours, and from 3 to 4.5 hours, for a total of 2.5 hours. His distance from home was decreasing from 0.5 to 1.5 hours and 4.5 to 5 hours, for a total of 1.5 hours. Choice (D) is true; eliminate it. The correct answer is (A).
15. C The question asks for the value of $a$ in the given diagram. Stare by ballparking any answer choise that clearly doesn't fit the figure. The angles with degree measure $a$ are greater than the angle labeled $60^{\circ}$, so eliminate (A) and (B). The sum of the angles intersecting in the circle is 360 degrees. Therefore, $a+a+a+60=360$. Solve by first combining like cerms to get $3 a+60=360$. Subtract 60 from both sides to get $3 a=300$. Divide both sides by 3 to get $a=100$. The correct answer is (C).
16. C The question asks what the slope represents in the graph of a certain situation. When asked abour the meaning of a constant or variable in context, start by reading the final question. In the given equation, the slope is the coefficient on the $x$ term: -75 . Next, label the information in the equarion. The variable $y$ represents amownt of money remaining, and the variable $x$ is days after the start of the fall semester. Therefore, the equarion is amount of money remaining $=-75$ (days after the start
of the fall semester) $+5,000$. Next, go through the answer choices using Process of Elimination. Choice (A) references the total amount, which is $y$, nor the slope. Eliminate (A). Choice (B) refers to the number 5,000 , but the slope of the equation is -75 . Eliminate (B). Choice (C) fits the equation; -75 is multiplied by the number of days since the beginning of the semester, so it would be consistent that Bo spent $\$ 75$ per day. Keep (C). Choice (D) refers to the amount of money Bo earned over the summer. However, that is the starting point and wouldn't need to be multiplied by the number of days. Also, slope is a rare of change, and the amount he made over the summer is fixed. Eliminate (D). The correct answer is (C).
17. D The question asks about the account that contains the least amount of money, so look it up. The scatterplot shows the interest rate in percent along the horizontal axis and the amount in the account along the vertical axis. The point that represents the account with the least money is the point that is closest to the bottom of the graph, which is at about 2.3 percent and $\$ 1,000$. The question asks for the difference of the actual amount and the amount predicted by the line of best fit. Trace up from the point to the line of best fit. Then, trace horizontally to the vertical axis to get a value of about $\$ 2,200$, making the difference $2,200-1,000=\$ 1,200$. The question asks for che answer choice that is the closest. The correct answer is (D).
18. B The question asks for the value of $x-y$ given a system of equations. Start by multiplying both sides of the first equation by 3 to get $x=12$. Next, plug $x=12$ into the second equation to get $12+y=32$. Subtract 12 from both sides to get $y=20$. The question asks for the value of $x-y$, which is $12-20$ or -8 . The correct answer is (B).
19. B The question asks for the predicted increase in bounce height for every 100 centimeters in drop height, so choose two points from the line of best fit. At a drop height of 0 centimeters, the line of best fit gives a bounce height of 0 centimeters, and at a bounce height of 200 centimerers, the line of best fit gives a bounce height of about 40 cenrimeters. Therefore, the increase in drop height of $200-0=200$ centimeters gives an increase in bounce height of $40-0=40$ centimeters. Use a proportion to find the increase in bounce height for 100 centimeters: $\frac{40 \mathrm{~cm} \text { bounce height }}{200 \mathrm{~cm} \text { drop height }}=\frac{x \mathrm{~cm} \text { bounce height }}{100 \mathrm{~cm} \text { drop height }}$. Cross-multiply to get $4,000=200 x$. Divide both sides by 200 ro ger $x=20$. The correct answer is (B).
20. C The question asks for $w$, and the answer choices ate all equations solved for $w$, so isolate $w$ in Formula B. Start by multiplying both sides by 5 mor ger $5 B M I=4 w-100$. Next, add 100 to both sides to ger $5 B M I+100=4 w$. Divide both sides by 4 to get $\frac{5 B M I+100}{4}=w$. The correct answer is $\langle\mathrm{C}\rangle$.
21. B The question asks for an expression equivalent to $4 w-100$, and it states that both formulas give che same value for $B M I$. Therefore, the left sides of each equation are equal, so set the right sides equal and solve for $4 w-100$. The equation becomes $\frac{w}{b^{2}}=\frac{4 w-100}{5}$. Isolate $4 w-100$ by multiplying both sides by 5 to get $\frac{5 w}{b^{2}}=4 w-100$. Be sure to read the final question! The question asks for $4 w-100$, so the correct answer is (B).
22. C The question asks for the meaning of the number 20 in the context of the function. Label the parts of the function. $C(b)$ represents the number of bacteria colonies and $h$ represents hours, so the function becomes number of bacteria colonies $=3^{\text {bowr }}-2($ hours $)+20$. Next, go through the answers and use Process of Elimination. The number 20 is not affected by hours, so it cannot represent a rate of growth; eliminare (A) and (B). Next, plug in. Choice (C) asks about the initial number of colonies, so make $h=0$. The function becomes $C(0)=3^{0}-2(0)+20$, which is $C(0)=$ $1-0+20$ or $C(0)=21$. This fits (C). There's no way to determine the final number of bacteria colonies because the final time is not given; eliminate (D). The correct answer is (C).
23. A The question asks for the difference between the median percent of agricultural lend for these 9 countries and the median for all countries, which is given as $34.95 \%$. Find the median of the 9 countries given by crossing our the greatest and least values in pairs until only one value remains. Number the countries in order of increasing percent of land area. Then cross out in pairs of the highest and lowest numbers on the list. Cross out Greenland and Mexico, Canada and Turkey, Russian Federation and United States, and Latvia and New Zealand. The country remaining, Brazil, is the median. Therefore, the median percentage is 33.8 . Find the difference by subtracting: $34.95-33.8=1.15 \%$. The correct answer is (A).
24. B The question asks for the combined volume of the figurines and pellets in the box. Find the volume of the box and subtract the volume of the air in the box. To find the volume of the box, write down the formula for the volume of a rectangular solid: $V=$ lwh . Next, plug in the given information into the formula. The question gives the area of the base of the box rather than the length and the width. There is not enough information to determine the length and width of the box, but length times width will equal the base of the box. Therefore, it is possible to plug in 4.4 for $d w$ and 6.5 for $h$ to get $V=(4.4)(6.5)$, which is 28.6 in. $^{3}$. Finally, subtract the volume of the air: $28.6-8.0=$ 20.6 in. ${ }^{3}$. The correct answer is (B).
25. D The question asks for the equation that models a certain situation. Use Bite-Sized Pieces and Process of Elimination. Because the GDP is shrinking a certain percentage per year, the answer should use the exponential growth and decay formula. That formula is final amount $=$ original amount $\left(1 \pm\right.$ rate of change) ${ }^{n m m a n ~ o f ~ c h a n g a, ~ w h e r e ~ r a t e ~ o f ~ c h a n g e ~ i s ~}$ expressed as a decimal. Eliminate (A) and (C) because they do not have exponents and therefore are nor in this form. The difference between (B) and (D) is rate of change. The value 2.6\% expressed as a decimal is $\frac{2.6}{100}$ or 0.026 . Eliminate ( B ). The correct answer is (D).
26. A The question asks for the relationship between two variables, so plug in. Use Nickel in the table because it has the most straightforward value for grams. Because $y$ is grams and $d$ is drams, make $y=5.00$ and $d=2.82$. Plug these values into the answer choices and eliminate any choice that is not true. Choice $(A)$ becomes $5.00=1.8(2.82)$, which is $5.00=5.08$. This is close, so keep $(A)$. Choice (B) becomes $2.82=1.8(5.00)$, which is $2.82=9.00$. This is false; eliminate ( B ). Choice (C) becomes $(5.00)(2.82)=1.8$, which is $14.1=1.8$. This is false; eliminate (C). Choice (D) becomes $5.00=0.56(2.82)$, which is $5.00=1.58$. This is false; eliminate (D). The correct answer is $(\mathrm{A})$.
27. A The question asks for $d$ in terms of $n$ and $p$, but there is no equation given. Therefore, start by translating English to math. The total weight is 225 grams, and $p$ pennies will weigh 2.50 pgrams. Similarly, $n$ nickels will weigh $5.00 n$ grams, and $d$ dimes will weigh $2.25 d$ grams. Therefore, the equation will be $225=2.50 p+5.00 n+2.25 d$. Next, solve the equation for $d$. Start by subtracting $2.50 p$ and $5.00 n$ from borh sides to get $225-2.50 p-5.00 n=2.25 d$. At this point, every answer has the same terms; the only differences are the addition and suberaction signs. Both the $p$ and $n$ cerms need to be subtracted from the conseant term, so eliminate (B) because both terms are added. Distriburing the negative before $\frac{10}{9}$ in (C) results in $d=100-\frac{10}{9} p+\frac{20}{9} n$. Since this subtracts the $p$ term but adds the $n$ term, eliminare (C). Choice (D) adds the $p$ term, so eliminate (D). The correct answer is (A).
28. A The question asks for a point that does NOT lie on the exterior of a circle, so the correct answer will be on the circle or inside it. Sketch a graph and ballpark. The standard form of the equation of a circle is $(x-b)^{2}+(y-k)^{2}=r^{2}$, where the center of the circle is $(h, k)$ and the radius is $r$. Therefore, the center of this circle is an $(2,-5)$ and the radius is 6 . Choices (B) and (C) are clearly outside the circle, so climinate them. Choice (A) is 6 unirs directly up from the center of the circle, and the circle has a radius of 6 . Therefore, the distance from $(2,1)$ to the center of the circle is equal to the radius and must be on the circle. The correct answer is $(\mathrm{A})$.
29. D The question asks for the number of peppers the farmer expects... in August. Work using Bite-Sized Pieces. The quescion states that the percent increase from June to July would be balf the percent increase from July to Auguss. Firsr find the percent increase from June to July using the percent change formula: percent change $=\frac{\text { difference }}{\text { original }} \times 100$. Plug the numbers from the table into the formula to get $\frac{2,640-2,200}{2,200} \times 100$, which is $\frac{440}{2,200} \times 100$ or $20 \%$. If this is balf the percent increase from Juhy to August, then the percent increase from July to August must be double 20\%, or 40\%. To find the number of peppers expected in August, find what 40\% of July's amount would be. Multiply 2,640 by $40 \%$ to get $2,640 \times \frac{40}{100}$ or 1,056 . Add this to 2,640 to get 3,696 peppers expected in August. The correct answer is (D).
30. D The question asks for the ratio of $b$ to $a$ given point ( $a, b$ ) on a line. Because ( $a, b$ ) isn't shown, any nonzero point will work. Use the given point $(-8,2)$, which makes $a=-8$ and $b=2$. Therefore, the ratio of $b$ to $a$ is 2 to -8 , which can be reduced by dividing both terms by -2 to get -1 to 4 . The correct answer is (D).
31. 8 The question asks for the number of incorrect answers a student had on a test. Translate the English to marh, starcing with the first sentence. The raw score equals subtracting $\frac{1}{4}$ af the number of the incorrect answers from the number of correct answers. Assign variables to the parts of the problem to make it easier to follow. If incorrect answers are $L A$ and correct answers are $C A$, the equarion becomes raw score $=C A-\frac{1}{4}(I A)$. Next, plug in the information given in the question. The paw score is 20 , so $20=C A-\frac{1}{4}([A)$. The student answered 30 questions, which is the rocal of $C A$ and $I A$, so this is another equation: $30=C A+I A$. To find the number of $L A$, stack the equations and suberact to cancel out $C A$.

$$
\begin{aligned}
30 & =C A+I A \\
-\quad[20 & \left.=C A-\frac{1}{4}(I A)\right] \\
\hline 10 & =\frac{5}{4}(I A)
\end{aligned}
$$

Clear the fraction by multiplying both sides by 4 to get $40=5(\mathrm{IA})$. Divide both sides by 5 to get $L A=8$. The correct answer is 8 .
32. 6 The question asks how much procein, in ounces, was in each meal of a given diet. Use proportions to determine the number of grams of prorein, the total number of ounces of prorein, and the ounces of protein per meal. There were 672 calories of protein in each meal, and there are 4 calories per gram. Set up a proportion to determine the weight of the prorein in grams: $\frac{4 \text { calories }}{1 \text { gram }}=\frac{672 \text { calories }}{x \text { grams }}$. Cross-multiply to get $4 x=672$. Divide borh sides by 4 to get $x=168$ grams. Next, each ounce is 28 grams, so set up anorher proporrion: $\frac{1 \text { ounce }}{28 \text { grams }}=\frac{x \text { ounces }}{168 \text { grams }}$. Cross-multiply to get $28 x=168$.

Divide borh sides by 28 oo get $x=6$ ounces. The correct answer is 6 .
33. $\frac{3}{4}$ or .75

The question asks for the slope of a line in the $x y$-plane. Find the slope using the slope formula:
$m=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}$, where $m$ is the slope. There are three points given; to make working the slope for mula more straighrforward, choose two points that have fractions for the same values (either borh for $x$ or boch for $y$ ). Use $\left(-\frac{16}{3},-3\right)$ and $\left(\frac{20}{3}, 6\right)$. Plugging these points into the slope equation gives $m=\frac{-3-6}{-\frac{16}{3}-\frac{20}{3}}$, Subtract in both the numerator and denominator to get $m=\frac{-9}{-\frac{36}{3}}$. Reduce the fraction in the denominator to get $m=\frac{-9}{-12}$ or $\frac{9}{12}$. This fits in the Grid-In box, so the correct answer is $\frac{9}{12}$. Other equivalent responses, such as $\frac{3}{4}$ or 75 , are also correct.
34. 0 or 5 The question asks for a prossible solution for $a$. To solve the system, substitute the left side of the first equation for $b$ in the second equation to get $a^{2}-6 a-9=-9-a$. Solve the quadratic by setting the equation equal to 0 . Add 9 to both sides to get $a^{2}-6 a=-a$. Add $a$ to borh sides to get $a^{2}-5 a=0$. To solve, factor out an $a$ to get $a(a-5)=0$. Two expressions multiplied togecher to equal 0 means that one of the terms must be equal to 0 . Therefore, $a=0$ or $a-5=0$. Add 5 to both sides of the second equation to get $a=5$. The correct answers are 0 and 5 .
35. 5 The question asks for $V W-Y Z$, so find the lengchs of those sides. Follow the geomerry basic approach. Start by labeling the given information onto the diagram, which is $T V=24, X Z=13$, and $\angle W \cong \angle Z$. Because both triangles are right triangles with another congruent angle, the triangles must be similar triangles. Next, write down formulas. SOHCAHTOA indicates that $\sin =\frac{\text { opposite }}{\text { hypotenuse }}$. Because the triangles are similat, the trigonomerric funcrions for the corresponding angles are equal. Therefore, $\sin T=\sin X=\frac{5}{13}=\frac{Y Z}{X Z}=\frac{V W}{T W}$. The question states that $X Z=13$, so $Y Z=5$. When dealing with tight triangles, keep an eye our for Pythagorean triples. This is a $5-12-13$ right triangle, so $X Y=12$; otherwise, use the Pythagorean Theorem to find that $5^{2}+12^{2}=13^{2}$. Label each of these sides in the figure. Because the triangles are similar, the sides are in the same ratio. Creare a ratio using the sides opposite the congruent angles: $\frac{T V}{X Y}=\frac{24}{12}$, or $\frac{T V}{X Y}=2$, so $T V=2 X Y$. Therefore, all the sides of triangle $T V W$ are twice those of triangle $X Y Z$. Thus, $T W=26$ and $V W=10$. Label each of these sides in the figure. The question asks for $V W-Y Z$, which is $10-5$ or 5 . The correct answer is 5 .
36. $\quad \frac{7}{36}$ or .194

The question asks what fraction of the circumference is the arc, which translares to $\frac{\text { arc }}{\text { circumference }}$. The length of an arc compared to the circumference of the circle is proportional to the central angle over 360 degrees, so $\frac{\text { arc }}{\text { circumference }}=\frac{\text { angle }}{360^{\circ}}$. Plug in the given information to get $\frac{\text { arc }}{\text { circumference }}=\frac{70^{\circ}}{360^{\circ}}$. The fraction reduces to $\frac{7}{36}$. The correct answer is $\frac{7}{36}$ or $\cdot 194$.
37. $\quad \frac{7}{8}$ or .875

The question asks for the probability thar a selecred participant threw 3 bullseyes on Day 1 or Day 2, provided that the participant threw 3 bullseyes on one of the three days. Probability is number of outcomes rhat fulfill requirements. On Day 1, 5 participants threw 3 bullseyes, and total number of possible outcomes
on Day 2, 2 participants threw 3 bullseyes, so there are 7 outcomes that fulfill the requirements. Because the question stipulates that the participants must have thrown 3 bullseyes on one of the three days, the total number of possible outcomes is the number of participants who threw 3 bullseyes, which is 8 . Therefore, the probability that someone who threw 3 bullseyes did so on Days 1 or 2 is $\frac{7}{8}$. The correct answer is $\frac{7}{8}$ or .875 .
38.

## $\frac{11}{5}$ or 2.2

The question asks for the mean number of bullseyes on Day 2, so find the total number of bullseyes thrown and divide by the number of participants. To find the toral number of bullseyes, multiply the number of participants who threw a certain number of bullseyes by the number of bullseyes and add those products. On Day 2, there were 3 participanes who threw 0 bullseyes, 3 who threw 1 bullseye, 3 who threw 2 bullseyes, 2 who threw 3 bullseyes, 2 who threw 4 bullseyes, and 2 who threw 5 bullseyes. Therefore, the roral number of bullseyes thrown on Day 2 is $(3 \times 0)+(3 \times 1)+$ $(3 \times 2)+(2 \times 3)+(2 \times 4)+(2 \times 5)$, which is $0+3+6+6+8+10=33$. There are 15 participants, so the average bullseyes per participant is $\frac{33}{15}$, which is $\frac{11}{5}$ or 2.2 . The correct answer is $\frac{11}{5}$ or 2.2 .

## RAW SCORE CONVERSION TABLE SECTION AND TEST SCORES

| Raw Seore fay of correct arsward | Math Section Seore | Reading Fesi Score | Writing <br> and <br> Language Tesiscore | Rew Score (W of eorrear answars! | Math <br> Section <br> Scere | Reading Tost Scort | Writing <br> and <br> Language <br> Test Score |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 200 | 10 | 10 | 30 | 530 | 28 | $2{ }^{6}$ |
| 1 | 200 | 10 | 10 | 31 | 540 | 28 | 30 |
| 2 | 210 | 10 | 10 | 32 | 550 | 29 | 30 |
| 3 | 230 | 11 | 10 | 33 | 560 | 29 | 31 |
| 4 | 240 | 12 | 11 | 34 | 560 | 30 | 32 |
| 5 | 260 | 13 | 12 | 35 | 570 | 30 | 32 |
| 6 | 280 | 14 | 13 | 36 | 580 | 31 | 33 |
| 7 | 290 | 15 | 13 | 37 | 590 | 31 | 34 |
| 8 | 310 | 15 | 14 | 38 | 600 | 32 | 34 |
| 9 | 320 | 16 | 15 | 39 | 600 | 32 | 35 |
| 10 | 330 | 17 | 16 | 40 | 610 | 33 | 36 |
| 11 | 340 | 17 | 16 | 41 | 620 | 33 | 37 |
| 12 | 360 | 18 | 17 | 42 | 630 | 34 | 38 |
| 13 | 370 | 19 | 18 | 43 | 640 | 35 | 39 |
| 14 | 380 | 19 | 19 | 44 | 650 | 35 | 40 |
| 15 | 390 | 20 | 19 | 45 | 660 | 36 |  |
| 16 | 410 | 20 | 20 | 46 | 670 | 37 |  |
| 17 | 420 | 21 | 21 | 47 | 670 | 37 |  |
| 18 | 430 | 21 | 21 | 48 | 680 | 38 |  |
| 19 | 440 | 22 | 22 | 49 | 690 | 38 |  |
| 20 | 450 | 22 | 23 | 50 | 700 | 39 |  |
| 21 | 460 | 23 | 23 | 51 | 710 | 40 |  |
| 22. | 470 | 23 | 24 | 52 | 730 | 40 |  |
| 23 | 480 | 24 | 25 | 53 | 740 |  |  |
| 24 | 480 | 24 | 25 | 54 | 750 |  |  |
| 25 | 490 | 25 | 26 | 55 | 760 |  |  |
| 26 | 500 | 25 | 26 | 56 | 780 |  |  |
| 27 | 510 | 26 | 27 | 57 | 790 |  |  |
| 28 | 520 | 26 | 28 | 58 | 800 |  |  |
| 29 | 520 | 27 | 28 |  |  |  |  |

Please note that the numbers in the table may shift slightly depending on the SAT's scale from test to test; however. you can still use this table to get an idea of how your performance on the practice tests will translate to the actual SAT.

## CONVERSION EQUATION SECTION AND TEST SCORES

 RAW SCORE $0(0-52)$
$\square$

Whiting And LANGLAGE TEST RAW SCORE (1) -44


MATH TEST NE CALCUAATOF RAW SCORE (0)-2011

Corrvort


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=\prod_{\text {MATH SECTIIN }}
$$

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\begin{aligned}
& \text { MATH SECTIIIN } \\
& \text { RAW SCORE }
\end{aligned}
$$

10-58

$$
\begin{aligned}
& \text { MATH TEST } \\
& \text { CALCULATOR } \\
& \text { RAW SCORT } \\
& \text { (0)-38) } \\
& \begin{array}{l}
\hline \\
\hline \text { MATH TEST } \\
\text { CALCULATOR } \\
\text { RMW SCOPA } \\
\text { पO-3B }
\end{array}
\end{aligned}
$$

$=$



(200-400)



$$
x^{2}=-1+\frac{1}{4}+
$$ *2

