Chapter 3

Written Expression
Page 76
Passage for questions 37 & 38: Sentence 5
(5) His final novel, <u>*The lair of the white worm*</u>, is considered almost laughably poor and borderline nonsensical.

Answer Keys and Explanations
<u>Reading</u>
Page 102
Answer Key
26. M

Page 104
26. **The correct answer is M.** This passage is written from the third-person point of view, which is an unknown narrator. Neither Bill (choice J) nor Bill's friend (choice K) is telling his own story in this passage. There is no rabbit hunter in this passage, so choice L is incorrect.

<u>Mathematics</u>
Page 110
7. **The correct answer is A.** Observe that 1 − (−4) = 1 + 4 = 5 and 4 − (−2) = 4 + 2 = 6. Since 5 < 6, the inequality in A is true.

<u>Ability</u>
Figure Classification
Page 113
17. The correct answer is D. The given figures all contain the same internal configuration, with circles included at vertices to form a triangle pattern that encompasses a quarter of the figure's area.

Page 114
19. The correct answer is D. This pattern features a hexagram with shaded and unshaded parts. The first figure has 4 shaded parts, the second has 5 shaded parts, and the third has 6 shaded parts. Choice D would continue this pattern, shading all parts of the figure.

Chapter 4

Reading
Passage for Questions 133-142, Paragraph 2
Page 146
The first real publications to have some sort of news-reporting purpose actually appeared in England in the 1600s. However, the main purpose of these papers was not to report current events: they were actually owned by various political parties, and these papers were generally intent on stimulating loyalty to a particular political party or stirring outrage against the opposing party.

Language
Page 165
292. Choose the sentence that demonstrates correct usage.

A. To slowly work is to do a carefully job.

B. The wind blew might during the storm.

C. The horse's mane flowed down its back beautifully.

D. The students grumbled when they learned loudly about the upcoming test.

Answer Key and Explanations
<u>Quantitative Skills</u>
Page 171
74. The correct answer is C. Note $(7 - 3)^2 = 4^2 = 16$, $7^2 - 3^2 = 49 - 9 = 40$, and $(3 - 7^2) = -4^2 = 16$. So A = C and A < B.

<u>Reading</u>
Comprehension
Page 176
138. The correct answer is D. The last paragraph mentions that titles often referenced Mercury and birds. The second paragraph clearly states that since the early English newspapers were owned by various political parties, their general intent was to promote political party loyalty or stir "outrage against the opposing party." What is not mentioned is any refusal to publish political attacks.

<u>Language</u>
Page 186
285. **The correct answer is B.** The preposition that makes the most sense is *within*. Lying beneath (choice A) a stream of sunlight would not be as warm as lying right within it. Since there is only one stream of sunlight, the cat cannot lie between it (choice C). The phrase "laid herself down of it" (choice D) does not make grammatical sense.

Chapter 5
Knowledge Check: Reading 1
Passage for questions 32-36, Paragraph 2
Page 220
How does this process of cell destruction occur? Neurotransmitters as a group fall into two types: those that cause nerve cells to act and those that stop nerve cells from acting. Glutamate is one of the neurotransmitters that cause nerve cells to act. Although glutamate is commonly used, it is normally present in the brain in very small amounts. When glutamate levels rise, nerve cells in the brain become too active, leading to destruction of the cells.

Answer Keys and Explanations
<u>Reading 1</u>
Page 234
16. A

17. A

18. A

19. D

20. B

21. B

Page 236
16. **The correct answer is A.** If necessary, reread the selection. Clearly, the observer is fascinated by the scene before him. He gives no indication of being frightened (choice B) or repulsed (choice C) and is far too interested to be bored.

17. **The correct answer is A.** The end of the first paragraph states that the Flemish painting was brought over from Holland.

18. **The correct answer is A.** At the beginning of the selection, the game is being played on a level spot with nine pins. At the end of the passage, balls are rolled, presumably at the pins. This indicates that the characters were playing a variety of bowling.

19. **The correct answer is D.** The second paragraph begins "What seemed particularly odd to Rip . . ." Rip must be the observer. All the other choices *could* be true, but we have no confirming evidence in the selection, whereas the selection does tell us that the man's name is Rip.

20. **The correct answer is B.** In the first sentence of the last paragraph, Rip found it "particularly odd" that the men maintained such grave faces while evidently amusing themselves.

21. **The correct answer is B.** This question asks you to identify the main idea, or main point, of the entire passage. This means that the correct answer will be broad enough to cover the entire passage but narrow enough to describe its specific message. It must also describe this specific message accurately. This passage basically provides us with a comparison of two views of energy: the original view, developed 200 years ago, and the current view now held by scientists. Paragraph 1 tells us that the original view, developed by Thomas Young, held that energy was "the ability to do physical work." The last paragraph tells us that the current view, developed by Albert Einstein, is that energy is "the stored potential to be able to complete work." This point is best summarized by the statement provided in choice B.

Page 238

33. **The correct answer is C.** The correct answer can be found in the last sentence of paragraph 2: "When glutamate levels rise, the nerve cells in the brain become too active, leading to the destruction of the cells." In other words, excess glutamate causes the nerve cells in the brain to become overactive, thereby destroying brain cells.

Reading 2
Page 239

16. A

17. C

18. A

19. C

20. A

21. B

Page 241

16. **The correct answer is A.** In the final paragraph, the passage states that germ-free mice are "popular for gut flora research because scientists can inoculate the mice with specific microbes and watch what happens." There are not enough details in the passage to support any of the other choices.

17. **The correct answer is C.** *Intriguing* means something like "arousing curiosity or interest." The only definition that comes close to this is choice C, *fascinating*.

18. **The correct answer is A.** Support for this answer can be found in the final paragraph, which states "experiments with germ-free mice have yielded intriguing clues about the possible influence of the gut microbiome on behavior and neurodevelopment. However, it is still unclear whether these findings are relevant to humans." Choice A basically restates this information in different words.

19. **The correct answer is C.** This question is asking you to look for the exception: algae is never mentioned in the passage. While algae can be categorized as a eukaryote, which is mentioned, it is not a component of the gut microbiome indicated by the passage.

20. **The correct answer is A.** The anecdote discusses a historical example of a doctor performing an experiment and finding a connection between mood and the stomach, stating that "Beaumont noticed that St. Martin's mood seemed to affect how quickly he digested food." Just after providing the story, the author adds: "These early observations provided the first clues of crosstalk between the brain and the gut." Therefore, the author explicitly states why they have used this anecdote, which is to set up the idea that doctors have historically noticed a brain-gut connection before diving into more current research on the topic.

21. **The correct answer is B.** This passage focuses largely on gastrointestinal microbiomes and how scientists over the years have investigated the ways that the gut microbiome interacts with the brain. Consequently, the title "Gut Microbiomes and the Human Brain" does the best job of summarizing the main idea of the passage, which is what a good title should do. Choices A and C are not specific enough, and choice D focuses on one small part of the passage (the story of Alexis St. Martin) without addressing the passage as a whole.

23. **The correct answer is A.** You can infer this answer from the second paragraph in which the author states that "The effects of the processes... are neither localized nor brief." In other words, the effects may be felt by more people for a longer period of time.

Page 242
34. **The correct answer is C.** The passage clearly states that the type of kangaroo that is Australia's national symbol is the "great gray kangaroo of the plains, fondly referred to as the Old Man throughout the continent."

36. **The correct answer is C.** Clues may be found in the first sentence of the first paragraph, which states that "For generations, historians and boat lovers have been trying to learn more about the brave ship that brought the Pilgrims to America," and in the first sentence of the third paragraph, which specifically describes the boat as historic.

Chapter 6
Organization
Transitions
Page 258
Example
The correct answer is A. Look closely at the sample sentence. The first half of the sentence discusses how houseplants have risen in popularity, and the second half of the sentence explains that this increase in popularity has been among young adults. Using the known new construct, we can find a sentence that begins with a phrase similar in meaning to "young adults." If we don't see a sentence like that, we can look for a sentence that begins with a pronoun that would refer back to young adults, like "they" or "this demographic." Now, notice the first few words of sentence 1: "Younger plant owners." This sentence would work as a follow-up to our sample sentence because it refers back to the idea of "young adults." Further, notice how the rest of the paragraph uses the known-new construct to create a deliberate sense of flow between sentences. Each sentence builds off the previous one by rephrasing known information in order to introduce new information to the reader. If you put the sample sentence from the question in any of the other locations, it would feel like an unrelated interruption because it does not create a deliberate connection between the sentence preceding or following it.

Answer Key and Explanations
Page 264
1. **The correct answer is B.** The pair of sentences presented in choice B picks up where the topic sentence leaves off. The first part of the first sentence recognizes two helpful aspects of using salt, and the last part of the sentence points out two harmful aspects. The second sentence provides further support for salt's harmful effects. While choice A amplifies the action of salt on ice and tells of its beneficial effects, the sentences in choice B better develop the topic sentence. Choices C and D do not develop the topic sentence at all.

Chapter 7

Knowledge Check: English Usage and Punctuation

<u>Exercise 3</u>

Page 305

12. Once upon a time in a corner of the kitchen lived a small black cricket and the cricket made a lot of noise that annoyed the woman who lived in the house and so the woman swept the cricket out the door.

A. Run-on sentence

B. Complete sentence

C. *Not* a complete sentence

Answer Key and Explanations

<u>Exercise 2</u>

Page 308

8. **The correct answer is C.** The proper idiomatic use is *depending on* or *depending upon*.

Page 309

20. **The correct answer is C.** *Consecutive* means "one after another." In other words, the criminal has to serve his sentences "one at a time."

Chapter 8

Answer Keys and Explanations

Page 332

2. **The correct answer is B.** The direct quotation must begin with a capital *Y*.

Chapter 10

Answer Keys and Explanations

<u>Antonyms</u>

Page 366

7. **The correct answer is B.** To gorge oneself is to overeat; the opposite is to diet. Don't be fooled into choosing either *stuff* or *valley*. These words are similar in meaning to the noun and verb forms of the word *gorge*. Remember, you are looking for the word that means the opposite.

Chapter 12

Order of Operations

Page 399

In the examples in the left column, the equation under the second bullet should appear as follows:

$4^3 + 6 = 64 + 6 = 70.$

<u>Test Yourself 2</u>

The directions should read as follows:

Apply the order of operations to each expression. The answers will follow.

Factors and Multiples

Page 403

Example (top left)

For Factors for 56, the list should read as follows: 1, 2, 4, 7, 8, 14, 28, 56

Example (bottom left)

For Factors for 56, the list should read as follows: 1, 2, 4, 7, 8, 14, 28, 56

<u>Least Common Multiple</u>
Page 404
At the end of the first paragraph, 504 should be 252.

Fractions
<u>Test Yourself 6</u>
Page 410
Answers:
4. 5

Knowledge Check: Basic Mathematics
Page 423
9. $\left(6 \times 10 \div 15\right) - \left(3^3 + 12\right) =$

A. −35

B. −15

C. 5

D. 12

10. $-2\left(64 \div 2^3\right) + \left(10 - 3^2\right) =$

A. −15

B. 15

C. 10

D. 12

Answer Key and Explanations
Page 430
29. **The correct answer is B.** Convert 10% to a decimal, 0.10, and multiply the total amount by the decimal to find the answer: 32 × 0.10 = 3.2

34. **The correct answer is B.** After the first 10% discount, the price was $1,080 ($1,200 minus 10% of $1,200). After the second discount, which is calculated based on the $1,080 price, the price of the computer is $972 ($1,080 minus 10% of $1,080).

Chapter 13
Expressions and Equations
<u>Scientific Notation</u>
Page 436
Example (top right)
The first sentence of the solution should read as follows:
> Move the decimal point to the left until you have a number between 1 and 10.

<u>Factorials</u>
Page 439
The first example equation in the left column should read as follows:
> 6! × 2! =

Knowledge Check: Algebraic Thinking
Page 450
12. 30 × 4! =

A. 8

B. 19 × 18 × 17 × 16 × 15 × 14

C. 640

D. 6!

18. Put the following equation in standard form: $2x^3 + 5x^4 + 7x^5 + 12 = 13$

A. $2x^3 + 5x^4 + 7x^5 + 25 = 0$

B. $7x^5 + 5x^4 + 2x^3 - 1 = 0$

C. $7x^5 + 2x^3 + 5x^4 - 1 = 0$

D. $-1 - 7x^5 + 5x^4 + 2x^3 = 0$

Answer Key and Explanations
Page 453
10. **The correct answer is B.** Move the decimal place to the right four places to get a number between 1 and 9. Since we are moving the decimal to the right, our exponent will be negative: 6.23 × 10^{-4}.

Chapter 14
Knowledge Check: Geometry
Page 477
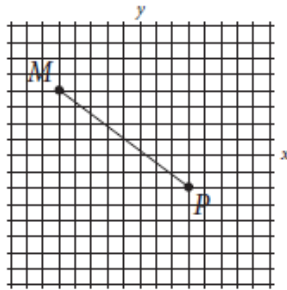Questions 22 & 23 should appear as follows:

22. What are the coordinates of point *M*?
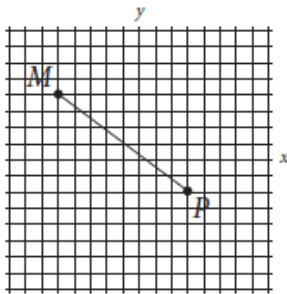
A. (5, 4)
B. (−5, 4)
C. (5, −4)
D. (−5, −4)

23. What are the coordinates of point *P*?

A. (3, 2)
B. (−3, 2)
C. (3, −2)
D. (−3, −2)

Answer Key and Explanations
Page 478
Answer Key
4. C

14. D

17. C

Answer Explanations
8. **The correct answer is A.**

First room: 36 ft. × 8 ft. = 288 sq. ft.

Second room: 24 ft. × 9 ft. = 216 sq. ft.

Both rooms: 288 + 216 = 504 sq. ft.

If each roll will cover 224 square feet, then 2.25 rolls (504 ÷ 224) are needed.

Page 479
For question 15's feedback, the first line of the equation block should read as follows:

$360° = 110° + 90° + 75° + x$

Chapter 15

Letter Series
<u>Numerical Analysis</u>
Page 491
Test Yourself 6

3. mpt jmq gjn dgk

A. cfj

B. bei

C. kos

D. adh

Answers
The final feedback statement for question 3 should read as follows:
  Watch for questions in which the letters are pre-grouped for you. In this case, we have 4 sets of 3 letters, so we are looking for the fifth set of 3 letters. Plot the given letters, assign the letters numbers, and then find the pattern. In this case, the pattern is +3, +4, –10.

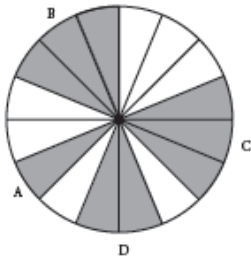# Chapter 16
Geometric Comparisons
Page 508
Example
The Example question should appear as follows:

EXAMPLE:

The pie is divided into 16 equal portions. Study the pie and find the best answer.

A. A plus D equals B plus C.
B. D minus A equals B minus C.
C. C minus D equals A.
D. B equals A plus C.

SOLUTION:

The correct answer is B. Begin by counting the pie wedges in each portion; write the number of wedges next to the letter:
A (1), B (3), C (3), D (2). Now perform the arithmetic for each statement.

A. 1 + 2 = 3 + 3; 3 = 6—false
B. 2 – 1 = 3 – 3; 1 = 0—false
C. 3 – 2 = 1—true
D. 3 = 1 + 3; 3 = 4—false

Ability Questions
Figure Classification
Page 513
The example in the first column should be as follows:

Determine which answer exhibits the same characteristic as the three shapes shown here.

The feedback should appear as follows:
The correct answer is C. Choice B violates the first two conditions. Choices A and D violate the third condition. Choice E violates all three conditions exhibited in the original figures.

Knowledge Check: Comparison
Page 517
The graph for question 7 should appear as follows:
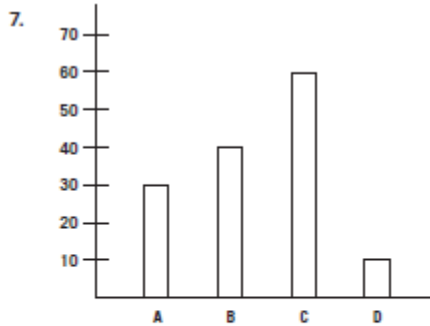
A. C plus D minus A equals B.
B. B plus D equals C.
C. A plus B equals C.
D. C minus D equals A plus B.

TACHS Practice Test 1
Mathematics
Page 550
For questions 41 and 42, the following direction should appear before the chart:
   Use the following chart for Questions 41 and 42:

Answer Key and Explanations
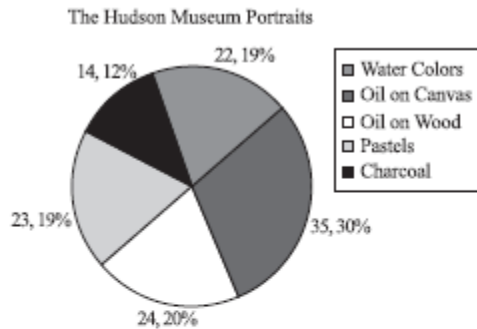Mathematics
Page 574

38. **The correct answer is L.** If the drawing is $\frac{1}{16}$ scale, then the drawing is $\frac{1}{16}$ the size of the actual wheel. Therefore, multiply the size of the drawing by 16: 1.8 × 16 = 28.8 inches.

TACHS Practice Test 2

Mathematics
Question 40 should appear as follows:

The Hudson Museum Portraits

40. The pie chart illustrates the number and types of portraits at the Hudson Museum. Based on the information in the chart, which of the following is true of the number of portraits in the museum?

J. There are fewer than 100 portraits.

K. There are 100 portraits.

L. There are more than 100 portraits.

M. There are more than 200 portraits.

48. A baseball team won 18 games, which was 40% of its season. How many games did the team lose?

J. 20

K. 27

L. 36

M. 45

49. If −2 < q < −1, which of the following is true?

A. $q = 0$

B. $q > -1$

C. $q > 0$

D. $q > -2$

Answer Key and Explanations
<u>Reading</u>
2. **The correct answer is L.** To answer a "detail" question like this one, you might go back and refresh your memory by rereading the part of the passage that describes what happened when the author met his mother's family. In paragraph 3, we are told that the author received gifts of money and yams from the family members who greeted him.

40. **The correct answer is L.** By adding the values (not the percentages) of each section, it can be determined that there are 14 + 22 + 35 + 24 + 23 = 118 portraits, which means that the museum has more than 100 portraits but less than 200.

43. **The correct answer is C.** To find the time, divide the distance (15) by the rate (6). At 6 mph, it will take 2.5 hours to travel 15 miles. 2.5 hours is 150 minutes.

48. **The correct answer is K.** If 18 games constituted only 40% of the season, then you know that

more than 36 total games were played. The number of games lost will be greater than 18 but less than 36. A 20% difference between the number of games won and lost will be accounted for by choice K, 27 games.

TACHS Practice Test 3
Answer Keys and Explanations
<u>Reading</u>
Page 688

32. **The correct answer is L.** To answer this cause-and-effect question, you must identify why Francis Bacon chose to look for a new approach to knowledge. Paragraph 1 tells us that before Bacon's time, knowledge was based on the beliefs of the church and that Bacon did not like the idea of basing knowledge only on faith or belief. The final sentence of paragraph 1 notes that Bacon "searched for a way of developing knowledge that he felt was more reliable," suggesting that he considered faith-based knowledge unreliable.

33. **The correct answer is A.** Paragraph 3 tells us that Bacon's approach came to be known by the name *inductivism*.

34. **The correct answer is M.** According to paragraph 1, scientific knowledge before Bacon's time was based on religious ideas and the doctrine of the church.

35. **The correct answer is B.** The answer to this question is found in paragraph 2. *The New Organon*, published in 1620, became the foundation for what we know today as the "empirical" sciences. It addressed how to develop knowledge gained from observing that which can be perceived through the senses, like hearing and sight.

37. **The correct answer is A.** The second sentence of paragraph 3 tells us that inductivism is the idea that theories about science can be developed from observing events.

HSPT Practice Test 4
Answer Keys and Explanations
<u>Quantitative Skills</u>
Page 748
Answer Key
71. D

Answer Explanations
64. **The correct answer is C.** A = 20 cents, B = 25 cents, and C = 16 cents. The only answer that proves to be true is choice C: A (20) is greater than C (16).

67. **The correct answer is B.** The pattern in this series is +2, ÷2, +2, ÷2, and so on. Since 6 + 2 = 8, and 8 ÷ 2 = 4, the missing term is 8.

68. **The correct answer is D.** A has 2 shaded parts, B has 4, and C has 3. The only answer that proves to be true is that A and C are both less shaded than B.

71. **The correct answer is D.** Start by finding $\frac{2}{3}$ of 39: $\frac{2}{3} \times 39 = 26$

Then, add 4 to find your answer: 26 + 4 = 30.

Page 749
89. **The correct answer is C.** The pattern in this series is +2, ×2, +2, ×2, and so on.

Page 750
94. **The correct answer is A.** A = 20, B = 20, and C = 20, which means that the only true statement among the answer choices is that A is equal to B, which is equal to C.

96. **The correct answer is D.** Because the figure is a cube, all edges and sides are equal. When a

diagonal line is drawn across one side, like $\overline{CF}$, it forms a hypotenuse of a right triangle whose length is longer than the length of either of its sides ($\overline{CE}$ and $\overline{EF}$). Because the sides of the cube are all equal, $\overline{CF}$ must also be longer than $\overline{AB}$.

97. **The correct answer is D.** The value of A is $\frac{1}{2} \times \frac{2}{3} = \frac{1}{3}$, B is $\frac{3}{4} \times 1 = \frac{3}{4}$, and C is $\frac{1}{2} \times \frac{3}{2} = \frac{3}{4}$. B and C are equal, and A is less than these.

Page 753
138. **The correct answer is B.** One might add honesty to the fishermen's traits. Theft is not mentioned as a problem. The potential destruction from whales is mentioned in the second sentence of the passage.

Page 757
Answer Key
192. B

Page 759
Answer Key
199. A

219. B

Page 761
219. **The correct answer is B.** Since her brother is 10, Katie herself is half of 10, or 5 years old. She will be 12 in 7 years since 5 + 7 = 12.

HSPT Practice Test 5
Answer Sheets
<u>Verbal Skills</u>
Page 769
The answer sheet should appear as follows:

Verbal Skills

1. Ⓐ Ⓑ Ⓒ Ⓓ	13. Ⓐ Ⓑ Ⓒ Ⓓ	25. Ⓐ Ⓑ Ⓒ Ⓓ	37. Ⓐ Ⓑ Ⓒ Ⓓ	49. Ⓐ Ⓑ Ⓒ
2. Ⓐ Ⓑ Ⓒ Ⓓ	14. Ⓐ Ⓑ Ⓒ Ⓓ	26. Ⓐ Ⓑ Ⓒ Ⓓ	38. Ⓐ Ⓑ Ⓒ	50. Ⓐ Ⓑ Ⓒ Ⓓ
3. Ⓐ Ⓑ Ⓒ Ⓓ	15. Ⓐ Ⓑ Ⓒ	27. Ⓐ Ⓑ Ⓒ Ⓓ	39. Ⓐ Ⓑ Ⓒ Ⓓ	51. Ⓐ Ⓑ Ⓒ Ⓓ
4. Ⓐ Ⓑ Ⓒ	16. Ⓐ Ⓑ Ⓒ Ⓓ	28. Ⓐ Ⓑ Ⓒ Ⓓ	40. Ⓐ Ⓑ Ⓒ Ⓓ	52. Ⓐ Ⓑ Ⓒ
5. Ⓐ Ⓑ Ⓒ Ⓓ	17. Ⓐ Ⓑ Ⓒ Ⓓ	29. Ⓐ Ⓑ Ⓒ Ⓓ	41. Ⓐ Ⓑ Ⓒ Ⓓ	53. Ⓐ Ⓑ Ⓒ Ⓓ
6. Ⓐ Ⓑ Ⓒ Ⓓ	18. Ⓐ Ⓑ Ⓒ Ⓓ	30. Ⓐ Ⓑ Ⓒ Ⓓ	42. Ⓐ Ⓑ Ⓒ Ⓓ	54. Ⓐ Ⓑ Ⓒ Ⓓ
7. Ⓐ Ⓑ Ⓒ Ⓓ	19. Ⓐ Ⓑ Ⓒ Ⓓ	31. Ⓐ Ⓑ Ⓒ Ⓓ	43. Ⓐ Ⓑ Ⓒ Ⓓ	55. Ⓐ Ⓑ Ⓒ
8. Ⓐ Ⓑ Ⓒ Ⓓ	20. Ⓐ Ⓑ Ⓒ Ⓓ	32. Ⓐ Ⓑ Ⓒ Ⓓ	44. Ⓐ Ⓑ Ⓒ Ⓓ	56. Ⓐ Ⓑ Ⓒ Ⓓ
9. Ⓐ Ⓑ Ⓒ Ⓓ	21. Ⓐ Ⓑ Ⓒ Ⓓ	33. Ⓐ Ⓑ Ⓒ	45. Ⓐ Ⓑ Ⓒ Ⓓ	57. Ⓐ Ⓑ Ⓒ Ⓓ
10. Ⓐ Ⓑ Ⓒ Ⓓ	22. Ⓐ Ⓑ Ⓒ	34. Ⓐ Ⓑ Ⓒ Ⓓ	46. Ⓐ Ⓑ Ⓒ Ⓓ	58. Ⓐ Ⓑ Ⓒ Ⓓ
11. Ⓐ Ⓑ Ⓒ Ⓓ	23. Ⓐ Ⓑ Ⓒ Ⓓ	35. Ⓐ Ⓑ Ⓒ Ⓓ	47. Ⓐ Ⓑ Ⓒ Ⓓ	59. Ⓐ Ⓑ Ⓒ Ⓓ
12. Ⓐ Ⓑ Ⓒ Ⓓ	24. Ⓐ Ⓑ Ⓒ	36. Ⓐ Ⓑ Ⓒ Ⓓ	48. Ⓐ Ⓑ Ⓒ Ⓓ	60. Ⓐ Ⓑ Ⓒ

Page 795
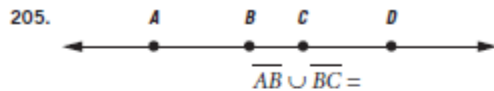111. What number decreased by 40% of itself is 90?

A. 150

B. 145

C. 60

D. 36

Page 797
Question 205 should appear as follows:

205.   A   B C   D

$$\overline{AB} \cup \overline{BC} =$$
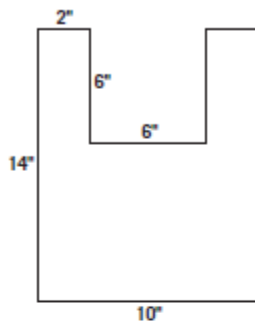
A. $\overline{BD}$

B. $\overline{BC}$

C. $\overline{AD}$

D. $\overline{AC}$

Page 799
Questions 225 and 226 should appear as follows:

Use the following diagram for Questions 225 and 226:

Note: Assume that any angle which appears to be a right angle *is* a right angle.

225. The perimeter of the figure above is

A. 38 in.

B. 38 sq. in.

C. 46 sq. in.

D. 60 in.

226. The area of the figure above is

A. 104 sq. in.

B. 120 sq. in.

C. 240 sq. in.

D. 276 sq. in.

Answer Keys and Explanations
Quantitative Skills
Page 811
62. **The correct answer is C.** The only answer that holds true is that B and D together are longer than A.

Page 812
77. **The correct answer is B.** Start by calculating the three fraction problems; A is 4, B is 6, and C is 4. The only answer that proves to be true is that A is less than B and equal to C.

80. **The correct answer is D.** Find the factors for both numbers.

42: 1, 2, 3, 6, 7, 14, 21, 42   39: 1, 3, 13, 39

The only shared factor besides 1 is 3. The GCF of (42, 39) is 3.

84. **The correct answer is B.** Read each answer choice and determine which statement holds true. In this case, A and D together (3 + 4 = 7) are equal to B and C together (5 + 2 = 7).

Page 813

92. **The correct answer is D.** Count the shaded squares, then determine which answer choice is the best answer. If you find it visually confusing to count the dark squares, it may be easier to count the white squares and subtract from the total number of squares, which is 15. It is true that A and C are equally shaded.

96. **The correct answer is A.** The order of the lengths of the line segments shortest to longest is B, C, A, D. Only choice D requires more information. The sum of both sides is 8 + 27 = 35, which is not equal to 40. This leaves choice A as the best answer.

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110. **The correct answer is C.** A is 95, B is 1.95, and C is 95. Work with the numbers instead of the letters to find that A and C are equal and are greater than B.

111. **The correct answer is A.** This is another instance in which it is easiest to try out the answers. Multiply each answer choice by 40%. In this case, however, 40% of 150 is 60, and when we decrease 150 by 40%, we arrive at the desired answer, $150 - 60 = 90$. Because the first choice works, there is no reason to continue. Choices C and D, being less than 90, could not possibly be correct. If time permits, you can double check choice B. 40% of 145 = 58. Since 145 - 58 = 87, and not 90, choice A is the correct answer.

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187. **The correct answer is B.** Since a half day is shorter than 25 hours, we can eliminate choice C right away. We can also eliminate choice D because 3,600 seconds is far shorter than 1,440 minutes. Since there are 1,440 minutes in 1 day (24 hrs x 60), we can determine by process of elimination that 25 hours is the longest time among the given choices.

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216. **The correct answer is D.** Move the decimal point or the divisor one place to the right; do the same for the dividend. Then divide 726.1 by 0.5. Since $0.5 = \frac{1}{2}$, you could choose to divide by $\frac{1}{2}$ or multiply by 2.

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224. **The correct answer is B.** A store markup of 100% would exactly double the price. A 75% markup almost doubles the price. The $17 pants are priced at almost double their cost to the store. By estimation, the best answer is B. To figure precisely, remember that a 75% markup is the equivalent of multiplying the cost by 175%, or 1.75.

$$\text{cost} \times 1.75 = 17.00$$
$$\text{cost} = 17.00 \div 1.75$$
$$\text{cost} = \$9.71$$

HSPT Practice Test 6

Answer Sheets

<u>Verbal Skills</u>

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The answer sheet for Verbal Skills should appear as follows:

Verbal Skills

1. Ⓐ Ⓑ Ⓒ Ⓓ	13. Ⓐ Ⓑ Ⓒ Ⓓ	25. Ⓐ Ⓑ Ⓒ Ⓓ	37. Ⓐ Ⓑ Ⓒ Ⓓ	49. Ⓐ Ⓑ Ⓒ Ⓓ
2. Ⓐ Ⓑ Ⓒ Ⓓ	14. Ⓐ Ⓑ Ⓒ Ⓓ	26. Ⓐ Ⓑ Ⓒ Ⓓ	38. Ⓐ Ⓑ Ⓒ Ⓓ	50. Ⓐ Ⓑ Ⓒ Ⓓ
3. Ⓐ Ⓑ Ⓒ	15. Ⓐ Ⓑ Ⓒ	27. Ⓐ Ⓑ Ⓒ	39. Ⓐ Ⓑ Ⓒ Ⓓ	51. Ⓐ Ⓑ Ⓒ
4. Ⓐ Ⓑ Ⓒ Ⓓ	16. Ⓐ Ⓑ Ⓒ Ⓓ	28. Ⓐ Ⓑ Ⓒ Ⓓ	40. Ⓐ Ⓑ Ⓒ Ⓓ	52. Ⓐ Ⓑ Ⓒ Ⓓ
5. Ⓐ Ⓑ Ⓒ Ⓓ	17. Ⓐ Ⓑ Ⓒ Ⓓ	29. Ⓐ Ⓑ Ⓒ Ⓓ	41. Ⓐ Ⓑ Ⓒ Ⓓ	53. Ⓐ Ⓑ Ⓒ Ⓓ
6. Ⓐ Ⓑ Ⓒ Ⓓ	18. Ⓐ Ⓑ Ⓒ Ⓓ	30. Ⓐ Ⓑ Ⓒ	42. Ⓐ Ⓑ Ⓒ Ⓓ	54. Ⓐ Ⓑ Ⓒ Ⓓ
7. Ⓐ Ⓑ Ⓒ Ⓓ	19. Ⓐ Ⓑ Ⓒ Ⓓ	31. Ⓐ Ⓑ Ⓒ Ⓓ	43. Ⓐ Ⓑ Ⓒ Ⓓ	55. Ⓐ Ⓑ Ⓒ Ⓓ
8. Ⓐ Ⓑ Ⓒ Ⓓ	20. Ⓐ Ⓑ Ⓒ	32. Ⓐ Ⓑ Ⓒ Ⓓ	44. Ⓐ Ⓑ Ⓒ	56. Ⓐ Ⓑ Ⓒ Ⓓ
9. Ⓐ Ⓑ Ⓒ Ⓓ	21. Ⓐ Ⓑ Ⓒ Ⓓ	33. Ⓐ Ⓑ Ⓒ Ⓓ	45. Ⓐ Ⓑ Ⓒ Ⓓ	57. Ⓐ Ⓑ Ⓒ Ⓓ
10. Ⓐ Ⓑ Ⓒ	22. Ⓐ Ⓑ Ⓒ Ⓓ	34. Ⓐ Ⓑ Ⓒ Ⓓ	46. Ⓐ Ⓑ Ⓒ Ⓓ	58. Ⓐ Ⓑ Ⓒ
11. Ⓐ Ⓑ Ⓒ Ⓓ	23. Ⓐ Ⓑ Ⓒ Ⓓ	35. Ⓐ Ⓑ Ⓒ Ⓓ	47. Ⓐ Ⓑ Ⓒ Ⓓ	59. Ⓐ Ⓑ Ⓒ Ⓓ
12. Ⓐ Ⓑ Ⓒ Ⓓ	24. Ⓐ Ⓑ Ⓒ Ⓓ	36. Ⓐ Ⓑ Ⓒ	48. Ⓐ Ⓑ Ⓒ Ⓓ	60. Ⓐ Ⓑ Ⓒ Ⓓ

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94. The correct answer is A. Each term starts with the last letter of the previous term and also includes the next two letters. The next term should start with I and also include J and K.

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120. The correct answer is B. The simple, improvised equipment made this a low-cost pastime. The players were not exceptionally skillful, and the game was only an American adaptation of a similar English game, so choices A and D are incorrect. Choice C is not singled out as an attraction of the game, so it is not a good choice.