SPECTRUM® REPRODUCIBLE Test Practice With Free Online Resources for each U.S. State





Comprehensive Practice for Standardized Tests

- Focused practice of the Common Core State Standards expectations for English language arts and mathematics
 - Bonus online pages for customized practice aligned to your state and your child's grade level
 - Comprehensive practice tests to prepare students for test-taking success
 - Free online information about national and state-specific standards, and standardized testing support

SPECTRUM TEST PRACTICE

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The Common Core State Standards

What Are the Standards?

The Common Core State Standards have been adopted by most U.S. states. They were developed by a state-led initiative to make sure all students are prepared for success in college and in the global, twenty-first century workforce. They provide a clear understanding of what students are expected to learn in English language arts and mathematics.

These new learning standards for your child are:

- Rigorous.
- Based on the best available evidence and research.
- Aligned with college and work expectations.
- Benchmarked to the highest educational standards from around the world.

What Do the English Language Arts Standards Mean for My Student?

In grade 7, English language arts standards focus on reading, writing, speaking and listening, and language skills (grammar and usage).

These standards set expectations for what it means to be a skilled reader and writer in the twenty-first century. They provide strategies for reading fiction and nonfiction closely and attentively. They help students look for evidence and make critical judgments about the vast amount of print and digital information available.

What Do the Mathematics Standards Mean for My Student?

Examples of grade 7 mathematics standards include geometry (solving problems with area, surface area, and angles), and statistics and probability (comparing two populations).

These standards increase the depth and focus of math topics studied in each grade. Instead of sampling a wide variety of skills each year, students work to develop deep understanding and mastery of a few concepts.

How to Use This Book

Time spent practicing for standardized tests will benefit your child greatly. With the adoption of Common Core State Standards by most U.S. states, educators are relying more than ever on test results to compare your child's progress with that of others around the nation and the world. The resources in this book will help ease anxieties and prepare your child for test day.

What's Inside?

- **Lesson pages** contain sample questions and examples related to a specific skill. The assumption is that your student has received prior instruction on the topics. These pages can provide focused practice.
- Sample tests are shorter tests with questions about one subtopic.
- Practice tests are comprehensive tests with questions about the entire content area.

Practice Options

Choose how you will use the materials to meet the needs of your student.

- Select pages matching the skills your student needs to practice most.
- Assign lesson pages for practice throughout the week. End the week with a sample or practice test related to those skills.
- Administer a timed practice test in a quiet setting. For a seventh grade student, allow 1.08
 minutes per question. After the test, check answers together and talk about what was most
 difficult.



- Look for the symbol shown above throughout the book. Talk about the clues with your child.
- Read and review directions and examples. Talk about how test questions look and point out words and phrases that often appear in directions.
- Skip difficult questions, returning to them if time allows.
- Guess at questions you do not know.
- Answer all the questions.
- Try to stay relaxed and approach the test with confidence!

-----READING: VOCABULARY-

Lesson 1: Synonyms

Directions: Read each item. Choose the answer that means the same or about the same as the underlined word. **Examples**

A. make a pledge

- profit
- trip
- promise
- comment

B. visualize the scene

- forget
- enjoy
- imagine

constant interruption

attention

thoughts intrusion

motion

(F) created

invented the automobile

preceded

allowed

recall



If an answer is too difficult, skip it and move on to the next item. Clue Come back to the skipped items later.

5.

6.

Practice

1. precise measurement

- accurate (A)
- incorrect
- approximate
- unnecessary

2. pleasant encounter

- entertainment
- meeting
- weather
- vacation

clear

- modernized

save

3.

reserve a table

- polish
- find

preceded the wedding 4.

- (F) after
- enjoying
- before
- attending

initiated

7. recently updated

- joined
- learned
- cloned

an immediate response 8.

- unequaled
- unhurried
- instantaneous
- interesting



-----READING: VOCABULARY-

● Lesson 2: Antonyms

Directions: Read each item. Choose the answer that means the opposite of the underlined word.

Examples

- A. cheerful attitude
 - (A) unhappy
 - (B) joyful
 - (c) indifferent
 - (D) silent

- B. gentle disposition
 - F large
 - G ungrateful
 - (H) violent
 - (J) breezy



If you are unsure if your answer is correct, make your best guess.

Practice

- 1. ancient civilizations
 - (A) recent
 - B old
 - (c) immediate
 - (D) destroyed
- 2. found the handout
 - F established
 - (G) misplaced
 - (H) wrote
 - (J) invented
- 3. omit information
 - (A) include
 - (B) examine
 - (c) exclude
 - (D) find
- 4. lush jungle
 - (F) thick
 - G dark
 - (H) barren
 - J unexplored

- 5. withheld funds
 - (A) allowed
 - B) updated
 - (c) adjusted
 - (D) contributed
- 6. conceal the answer
 - (F) reveal
 - (G) hide
 - (H) share
 - (J) discuss
- 7. inert ingredient
 - (A) added
 - (B) stirred
 - (c) flour
 - (D) active
- 8. minimize problems
 - (F) increase
 - (G) decrease
 - (H) challenging
 - (J) word

Directions: Read each item. Choose the answer that means the same or about the same as the underlined word.

Examples

- A. The village has only one school.
 - (A) city
 - (B) district
 - © country
 - (D) hamlet

- B. When the employee stole money, he was corrupt.
 - (F) dishonest
 - (G) truthful
 - (H) helpful
 - (J) prosecuted

For numbers 1–2, read each item. Choose the answer that means the same or about the same as the underlined word.

- 1. Nick insisted that his friend read the book.
 - (A) regarded
 - (B) answer
 - © pretended
 - D urged
- 2. Individuals within the group had different points of view.
 - (F) enabled
 - (G) similar
 - (H) varied
 - (J) controlled

For numbers 3–6, read each item. Choose the answer that means the opposite of the underlined word.

- 3. That chemical is volatile!
 - (A) stable
 - B explosive
 - c useful
 - D puzzling

- 4. Joshua was filled with sorrow when his dog died.
 - (F) danger
 - (G) joy
 - (H) passion
 - (J) anger
- 5. How many answers were correct?
 - (A) wrong
 - B right
 - (c) difficult
 - (D) justified
- 6. It is questionable if it will rain on Saturday.
 - (F) doubtful
 - (G) uncertain
 - (H) inevitable
 - (J) possible



-----READING: VOCABULARY--SAMPLE TEST (cont.)

For numbers 7–10, choose the correct meaning for the underlined word.

- 7. When we eat, we digest food.
 - (A) journal
 - (B) absorb
 - (c) inhale
 - (D) chew
- 8. Look at the picture on the computer monitor.
 - (F) album
 - (G) supervisor
 - (H) system
 - (J) screen
- 9. Keep a diary of your daily activities.
 - (A) autobiography
 - (B) record
 - © periodical
 - (D) index
- 10. That word adds <u>punch</u> to your sentence!
 - F pungency
 - (G) drinks
 - (H) nothing
 - (J) power

For numbers 11–14, find the word that fits each blank the best.

- 11. We stayed at a _____ hotel, and we took a beach walk each day.
 - (A) seaside
 - (B) mountain
 - (c) resort
 - (D) cheap
- 12. We got lost because we traveled a

	way
(F)	long

- G slow
- (H) special
- (J) roundabout
- 13. He is so _____ that people enjoy spending time with him.
 - (A) boring
 - **B** unfriendly
 - © congenial
 - D unhappy
- 14. The energy from the sun is ______ because it never stops shining.
 - (F) hot
 - (G) constant
 - H dying
 - (J) warm

— MATH: MATH CONCEPTS

● Lesson 1: Numeration

Directions: Read and work each problem. Find the correct answer.

Examples

- A. Which of these numbers is a common multiple of 4, 6, and 8?
 - (A) 22
 - (B) 24
 - (c) 32
 - (D) 18

- B. Which of these is smaller than ⁻⁶
 - (F) 4
 - (G) -4
 - (H) -8
 - (J) 0

√144 =

9

10 11 12

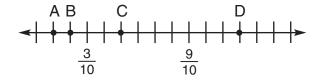
3.



Read each question carefully.

Practice

1. Which point is at $\frac{1}{2}$ on this number line?



- (A) A
- (B) B
- (c) C
- (D) D

4. Which of these is another way to write

F 42,600,048

the number in the box?

- G 42,640,008
- (H) 43,640,080
- (J) 42,064,800

- 2. What number is expressed by $(3 \times 10^3) + (4 \times 10^2) + (8 \times 10^1)$
 - (F) 3,408
 - G 3,480
 - (H) 34,800
 - (J) 340,800

—— MATH: MATH CONCEPTS -

● Lesson 1: Numeration (cont.)

- 5. What is the prime factorization of 64?
 - 8 x 8
 - (B) 2 x 2 x 2 x 2 x 2 x 2
 - (c) 2 x 32
 - (D) 2 x 2 x 2 x 8
- 6. Which of these is less than 112?
 - (F) 122
 - (G) 112
 - (H) 132
 - (J) 142
- 7. What is the value of the expression in the box?

- (A)
- B ⁻9
- (c) -12
- (D) 0
- 8. Which of these is between 0.02 and 0.2 in value?
 - (F) 0.2
 - (G) 0.008
 - (H) 0.6
 - J 0.06

- 9. Which of these is another name for 8³
 - (A) 8 x 3
 - (B) 3 x 3 x 3 x 3 x 3 x 3 x 3 x 3
 - © 8 x 8 x 8
 - (D) 3
- 10. $6.2 \times 10^3 =$
 - (F) 620
 - (G) 6,200
 - (H) 62,000
 - (J) 620,000
- 11. What is the *smallest* number that can be divided evenly by 8 and 16?
 - (A) 16
 - B 128
 - (c) 32
 - D 24
- **12.** $^{-}$ **7** + **9** =
 - (F) -4
 - (G) 2
 - H 16

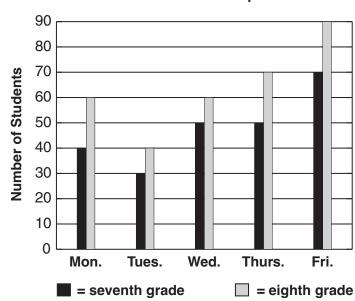
——— MATH: MATH CONCEPTS -

Lesson 1: Numeration (cont.)

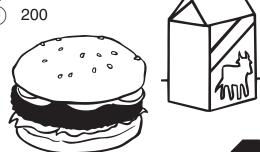
- 13. Which of these is the greatest common factor of 32 and 72?
 - 3
 - 12
 - 9
- 14. How much must you add to -8 to get a number greater than 12?
 - (F) a number between -4 and 14
 - (G) a number less than 5
 - (H) a number less than ⁻4
 - a number greater than 20
- 15. Which number is greater than 42,648 but less than 53,229?
 - 42,528
 - 41,872
 - 53,326
 - 48,269
- 16. Which number is 462 rounded to the nearest tenth?
 - (F) 460
 - (G) 465
 - 400
 - 500
- 17. Which number is 8,219 rounded to the nearest hundred?
 - 8,220
 - 8,000
 - 8,300
 - 8,200

Use the following double bar graph to answer questions 18-19.

Hot Lunch Consumption



- 18. On which day do the most students buy lunch?
 - Tuesday
 - (G) Friday
 - Monday
 - Wednesday
- 19. How many total lunches are purchased on Tuesday and Thursday?
 - 120
 - 80
 - 190



——— MATH: MATH CONCEPTS =

● Lesson 2: Number Concepts

Directions: Read and work each problem. Find the correct answer.

Examples

- A. How would you read 9.6?
 - (A) nine and six tenths
 - B ninety six
 - (c) nine and six hundredths
 - nine hundred and six

- B. Which of these is a composite number?
 - (F) 3
 - (G) 19
 - H 5
 - (J) 24



Key words, numbers, pictures, and figures will help you find the answers.



Practice

- 1. 10,435 + 13,456 =
 - (A) 12,000
 - (B) 23,891
 - (c) 22,000
 - (D) 24,635

3. What number goes in the blank to make the number sentence true?

$$3 \times (1 + 6) = (3 \times 1) + (_ \times 6)$$

- (A) 3
- (B) 0
- (c) 6
- (D) -

- 2. Which describes the underlined portion in the numeral 21,648,362?
 - (F) thousands
 - (G) tens of thousands
 - (H) hundreds of thousands
 - (J) millions

- 4. What is 0.89 rounded to the nearest tenth?
 - (F) 0.089
 - G 0.85
 - (H) 0.80
 - (J) 0.9

—— MATH: MATH CONCEPTS -

● Lesson 2: Number Concepts (cont.)

- 5. Which of these is a prime number?
 - (A) 27
 - (B) 37
 - (c) 21
 - (D) 35
- 6. What number completes this number sentence?

6 x 20 = 10 x ____

- (F) 6
 - (G) 12
 - (H) 16
 - (J) 60
- 7. Which of these is another way to write the number shown in the box?

- A 540.13
- B) 543.10
- © 54.31
- (D) 540.31
- 8. Look carefully at the number pattern below. Which of these number sentences could be used to find the number that is missing from the number pattern?

2, 4, 6, 8, 10, 12, 14, ____, 18

- (F) 14 + 4 = 18
- \bigcirc 18 4 = 14
- (H) 14 + 2 = 16
- \bigcirc 16 + 2 = 18

- 9. 3,245 2,678 =
 - (A) 267
 - (B) 432
 - (c) 567
 - D 523
- 10. How much would the value of 624,008 be decreased by changing the 6 to a 5?
 - (F) 24,000
 - (G) 10,000
 - (H) 100,000
 - (J) 60,000
- 11. Ten million, two hundred six =
 - (A) 10,000,206
 - (B) 10,206,000
 - (c) 10,026,000
 - (D) 1,260,000
- 12. Look at the group of numbers in the box. Which statement about the numbers is true?

- (F) All of them are prime numbers.
- (G) None of the numbers are odd.
- (H) All of the numbers are even.
- (J) None of the numbers can be divided evenly by 4.

——— MATH: MATH CONCEPTS –

Lesson 2: Number Concepts (cont.)

79 95 65 88 72

- B) 65
- 88
- 72
- 14. What is the average of these numbers?

6 24 32 15 18

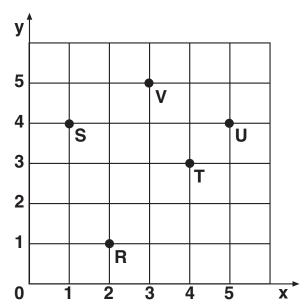
- (F) 24
- (G) 95
- 19
- 32
- 15. What is 230.7 in expanded form?
 - (A) 2000 + 30 + 70
 - B) 200 + 3 + 7.0
 - © 200 + 3 + 70
 - 200 + 30 + 0.7
- 16. $28 (3 + 6) \times 3 =$
 - (F) 57
 - (G) 18

- 13. What is the median of these numbers? | 17. What would be an appropriate integer to describe a \$10.00 reduction?
 - -1
 - -10
 - 10
 - -11
 - 18. How would you write 4,800 in scientific notation?
 - (F) 4.8 x 10³
 - G) 48 x 10
 - H) 48 x 10³
 - 4.8 x 10²
 - 19. What is the rule for the following pattern?

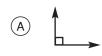
- (A) denominator is twice the numerator
- (B) numerators increase by threes
- (c) the numbers increase
- numerator is twice the denominator
- $20. \quad 34,654 + 3,768 =$
 - F) 39,456
 - G) 37,986
 - 38,422
 - 38,232

——— MATH: APPLICATIONS — SAMPLE TEST (cont.)

Use the coordinate graph to answer questions 5 and 6.

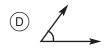


- 5. What point is at (3, 5)?
 - (A) R
 - (B) S
 - © V
 - (D) T
- 6. What are the coordinates of point S?
 - (4,1)
 - (G) (2,1)
 - (H) (4,3)
 - (J) (1,4)
- 7. Which angle is a right angle?









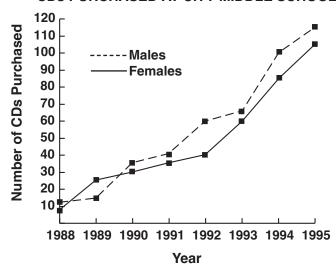
- 8. A <u>round table</u> has a diameter of 6 feet. What is the circumference of the table? Remember $\pi = 3.14$ and $C = \pi \times d$.
 - (F) 18.00 feet
 - (G) 6.34 feet
 - (H) 12.00 feet
 - (J) 18.84 feet
- 9. What is the surface area of a cube if an edge is 8 centimeters long?
 - (A) 64 cm²
 - (B) 328 cm²
 - © 384 cm²
 - (D) 24 cm²
- 10. What is the average weight of three packages that weigh 120, 69, and 83 pounds?
 - (F) 90.7 pounds
 - (G) 85 pounds
 - (H) 98.3 pounds
 - (J) 99 pounds
- 11. You know the measurements of 2 angles in a triangle. They are 72 degrees and 42 degrees. What is the measurement of the third angle?
 - (A) 66 degrees
 - B 27 degrees
 - © 114 degrees
 - D 14 degrees



- 12. The distance around a mall is 1,800 yards. Which of these could be the length and width of the mall?
 - (F) 600 yards and 100 yards
 - (G) 500 yards and 400 yards
 - (H) 200 yards and 500 yards
 - J 400 yards and 200 yards
- 13. If 60y = -120, then y =
 - (A) 2
 - (B) 60
 - (c) -2
 - D -60
- 14. Which equation means, "A number divided by itself is 1"?
 - $(F) \quad y \div y = 1$
 - $\bigcirc \qquad 1 \div y = y$
 - (H) $y^2 = 1$
- 15. On a canoe trip with his family, Pete travels an average of 27 miles a day. If the final destination is 140 miles away, about how long will it take Pete to get there?
 - (A) 2 days
 - B 7 days
 - © 5 days
 - (D) 12 days

Use the line graph below to answer the questions 16–18.

CDs PURCHASED AT CITY MIDDLE SCHOOL



- 16. How many CDs did the female students buy in 1990 and 1991?
 - F about 100
 - G about 65
 - (H) about 43
 - (J) about 35
- 17. In which year did the students buy 185 CDs?
 - (A) 1988
 - (B) 1990
 - (c) 1994
 - D 1992
- 18. How many CDs did the boys buy in 1990 and 1992?
 - (F) 95
 - G 60
 - H 35
 - (J) 80

—— MATH PRACTICE TEST -

● Part 1: Concepts

Directions: Read each problem carefully. Select the correct answer.

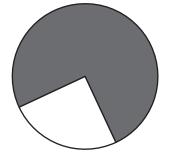
Examples

- A. What is another way to write 40,000,000 + 6,000,000 + 30,000 + 200 + 2?
 - (A) 46,322
 - (B) 4,603,020
 - (c) 46,030,202
 - (D) 40,632,200

- B. Which of these decimals is less than2.775 and greater than 1.865?
 - (F) 0.612
 - (G) 2.235
 - (H) 1.635
 - (J) 0.023

- 1. Which of the following is another name for $\frac{19}{5}$?
 - (A) $3\frac{4}{5}$
 - (B) $2\frac{4}{5}$
 - © $3\frac{5}{19}$
 - ① $3\frac{19}{5}$
- 2. Which of these is a factor of 16, 32, and 64?
 - (F) 3
 - (G) 8
 - (H) 5
 - J 6
- 3. Which of these number sentences could be used to find the missing number in the pattern below?
 - 1, 4, 7, 10, 13, 16, ____, 22
 - \widehat{A} 19 6 = 13
 - (B) 16 3 = 13
 - (c) 16 + 3 = 19
 - \bigcirc 21 4 = 18

- 4. Which of these is the best estimate of the percentage of the circle that is not shaded?
 - (F) 50%
 - (G) 25%
 - (H) 33%
 - (J) 75%



- 5. $4.2 \times 10^3 =$
 - (A) 42
 - (B) 42,000
 - (c) 4,200
 - (D) 420
- 6. $6^3 24 =$
 - (F) 192
 - (G) 292
 - $\widehat{(H)}$ 0
 - (J) 12

— MATH PRACTICE TEST -

Part 1: Concepts (cont.)

- 7. Which of these is <u>not</u> another way to write $\frac{18}{24}$?
 - (A) 0.25
 - (B) 75%
 - \bigcirc $\frac{3}{4}$
 - (D) 0.75
- 8. What is the prime factorization of 32?
 - (F) 2 x 2 x 2 x 2
 - (G) 2 x 2 x 2 x 2 x 2
 - (H) 2 x 2 x 2 x 3
 - (J) 2 x 2 x 2 x 2 x 2 x 2
- 9. Which of these is the best estimate of
 - 25.15 x 5 $\frac{6}{7}$
 - (A) 25 x 6
 - (B) 24 x 5
 - © 26 x 7
 - (D) 25 x 4
- 10. Which of these is another way to write 0.12?
 - (F) 1.2%
 - G 0.012
 - (H) 120%
 - J 12%
- 11. What should replace the box in the equation

$$21,014 = 20,000 + \Box + 10 + 4$$

- (A) 0
- (B) 10
- (c) 100
- (D) 1,000

- 12. Which of these is two ten-thousandths?
 - (F) 0.0002
 - (G) 0.0020
 - (H) 2.0000
 - (J) 0.2000
- 13. What does the *n* in the equation below stand for?

$$(n + 6) \times 8 = (8 \times 2) + (8 \times 6)$$

- (A) (
- B 2
- (c) 4
- (D) 6
- 14. $\sqrt{256}$ =
 - (F) 18
 - (G) 12
 - (H) 14
 - J 16

—— MATH PRACTICE TEST =

● Part 2: Computation

Directions: Read each problem carefully. Select the correct answer.

Examples

- (B) 105.93
- (c) 103.03
- (D) 113.26

- (F) 82.41
- (G) 81.98
- (H) 82.64
- (J) 83.02

1.
$$0.863 + 0.136 = \bigcirc 0.899$$

- (B) 0.789
- © 0.999
- (D) 0.629

5. **24.6929** x **10** =
$$(A)$$
 24.6

- (B) 2.46
- © 246.929
- (D) 246.299

- G 2,611.4
- H 1,235.2
- J 1,335.6

- (G) 72.058
- H) 72.896
- (J) 70.113

- (B) 6
- © 5.50
- (D) 6.75

7.
$$34.37 \div 5 =$$

- (A) 6.874
- (B) 6.213
- c) 5.999
- D 8.245

- G 0.6
- (H) 0.2
- (J) 0.3

8.
$$0.056 \times 100 =$$
 F 5

- (G) 5.2
- (H) 4.8
- (J) 5.6



MATH PRACTICE TEST

Part 2: Computation (cont.)

- 9. $4 \times 12 \div 6 =$
- 8
- B 10 C 6

- 10. $4\frac{4}{5} + 3\frac{2}{5} =$
- $\bigcirc F 7\frac{1}{6}$
- (G) $8\frac{2}{5}$

- 11. $1\frac{3}{4} + 2\frac{3}{4} + 1\frac{1}{4} =$
 - $\bigcirc A \quad 5\,\frac{1}{2}$
- 12. 10,469 + 9,400 + 32 =
 - (F) 19,000
 - (G) 18,469
 - (H) 19,901
 - 19,981
- 13. $0.20 \times 5 =$

- 14. $20\frac{3}{4} 3\frac{1}{4} =$
- (F) $17\frac{1}{2}$
- (G) $16\frac{3}{4}$
- (H) $15\frac{1}{2}$
- 15. 14% of 30 =
- (A) 4.4
- B 2.6
- © 4.8
- (D) 4.2
- 16. 85% of 110 =
- (F) 93.25
- G 92.10
- (H) 94.6
- 93.5
- 17. $0.2 \times 95 =$
- (A) 19
- B 21
- (c) 17
- 12
- 18. 4.5% of 17 =
- (F) 0.832
- G 0.765
- (H) 0.236
- 0.625

—— MATH PRACTICE TEST =

● Part 3: Applications

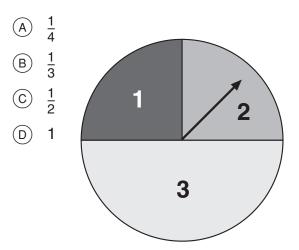
Directions: Read each problem carefully. Select the correct answer.

Examples

- A. The distance around a swimming pool is 90 feet. Which of these could be the length and width of the pool?
 - (A) 20 feet and 15 feet
 - (B) 15 feet and 40 feet
 - © 30 feet and 15 feet
 - (D) 25 feet and 25 feet

- B. What is the surface area of a cube if an edge is 4 centimeters long?
 - (F) 12 cm²
 - (G) 96 cm²
 - (H) 100 cm²
 - (J) 36 cm²
- 1. An irregularly shaped pentagon has a perimeter of 764 meters. The pentagon has sides that are 129 meters, 365 meters, 24 meters, and 100 meters long. What is the length of the fifth side?
 - (A) 146 meters
 - (B) 177 meters
 - (c) 1,389 meters
 - (D) 22 meters
- 2. The perimeter of the room in which the party will take place is 70 feet. The width is 15 feet. What is the length?
 - F 40 feet
 - (G) 30 feet
 - (H) 20 feet
 - J 10 feet

3. What is the probability that this spinner will stop on 2?



- 4. An angle of 86° is—
 - F symmetric
 - G right
 - (H) obtuse
 - (J) acute



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