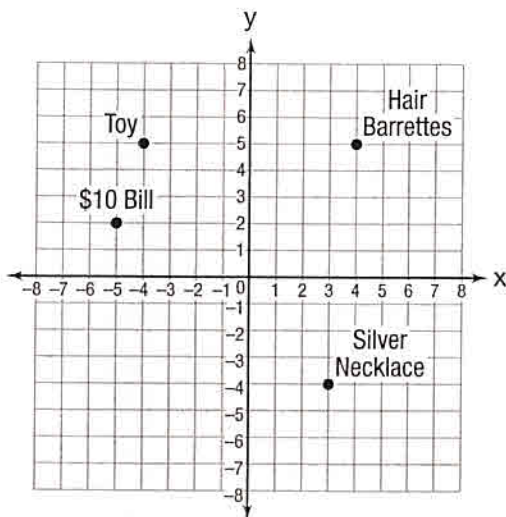


Packet

B

Ms. Riches set up a treasure hunt for her nieces and nephews. The map below shows the locations of four treasures.

TREASURE HUNT MAP

**Part A**

Ms. Riches wants to add a fifth treasure, a pair of movie tickets, at $(2, -5)$. Plot and label this point on the map.

Part B

The length of each square on the map represents one foot. What is the distance between the hair barrettes and the toy?

Answer _____ feet

Go On

60

Frank has \$50 to buy party supplies. He wants to buy chips and dip. He has already bought seven bags of chips that cost him \$32. The dip he wants to buy has a unit cost of \$2.25 per container. Write and solve an equation, or inequality, to determine the number of containers of dip Frank can buy.

Show your work.

Answer _____ containers of dip

- 1 Chaz is a college student and Bill is his roommate. Chaz's bank account balance is $-\$52.00$, while Bill's is $-\$59.25$.

Part A

Who owes more money to the bank Chaz or Bill?

Answer _____

Part B

Use the line below to draw a single number line that represents the money they each owe.

**Part C**

If Bill deposits $\$100$ into his account, what will his new balance be?

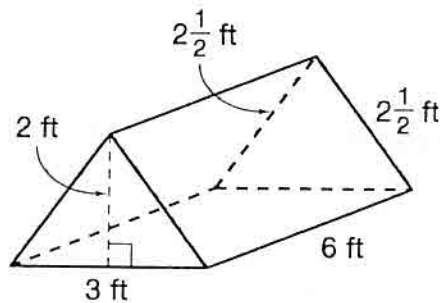
Show your work.

Answer \$ _____

Go On

62

Qiao is building a doghouse with his mother and needs to figure out how much wood to use.



[not drawn to scale]

Part A

Draw a net of the doghouse and label the dimensions that correspond to the above image.

Part B

What is the surface area of the doghouse? Write answer as a fraction, or mixed number, in simplest terms.

Show your work.

Answer _____ feet

- Jennifer has a total of $\frac{8}{9}$ square yard of fabric to use for making handkerchiefs. Each handkerchief requires $\frac{1}{6}$ square yard of fabric.

Part A

How many scarves can she make with the material she has?

Show your work.

Answer _____ scarves

Part B

How much, if any, fabric is left over? Write answer as a fraction in simplest terms.

Show your work.

Answer _____ scarves

Go On

- 64** Rico travelled from the United States to the United Kingdom. Once Rico arrived, he converted his American dollars into British pounds (the currency in the UK). He gave the bank teller \$500 and was given back 295 pounds. At the end of his vacation, Rico had 75 pounds left over, which he converted back into US dollars. How much money (in US dollars) did Rico have when he got home? Round the answer to the hundredths.

Show your work.

Answer \$ _____

The Green Bean Coffee Shop sells muffins for \$2 each. So far today, they have sold 13 muffins.

Part A

Write an equation that represents the amount of money, A , they'll make if they sell, m , additional muffins today.

Answer _____

Part B

Use the equation you wrote to determine how much money they'll make if they sell an additional 22 muffins.

Answer _____ muffins

STOP

C

11

12

C

13

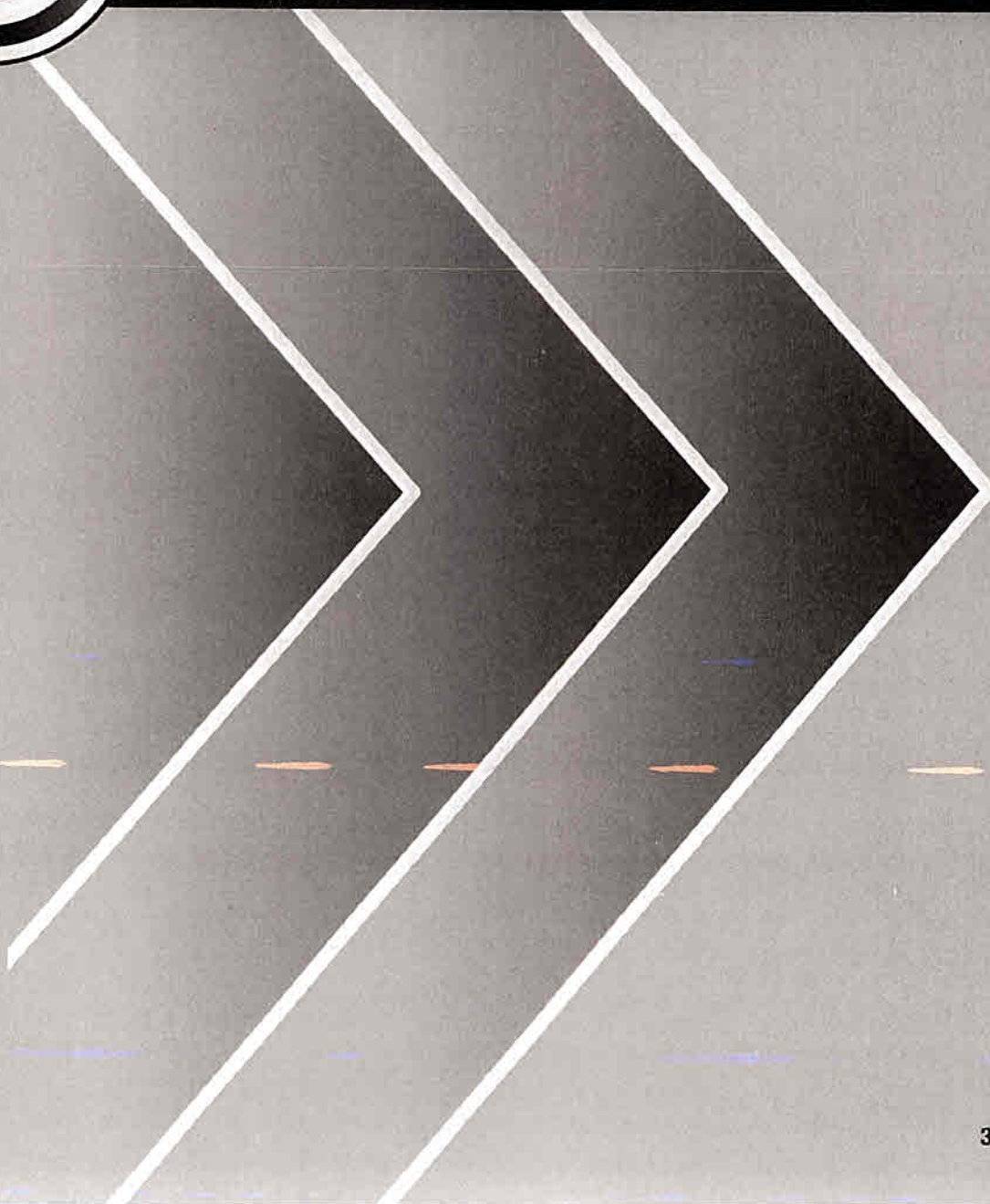
14

C

15



Practice Test 2



TIPS FOR TAKING THE TEST

Here are some suggestions to help you do your best:

- Be sure to carefully read all the directions in the test book.
- Read each question carefully and think about the answer before choosing your response.
- Look for words that are **bolded**. They are important.
- Read all the answer choices and then go back and pick the best answer for the question.

1 Carole owed \$74 on her credit card. She then bought \$28 from groceries. What is the balance on Carole's credit card after she buys groceries?

- A -\$102
- B -\$46
- C \$46
- D \$56

2 Which words can be used to describe the expression $5(x + 6)$?

- A 6 plus the product of 5 and x
- B 5 plus x times 6
- C the quantity 5 times x plus 6
- D 5 times the sum of x and 6

3

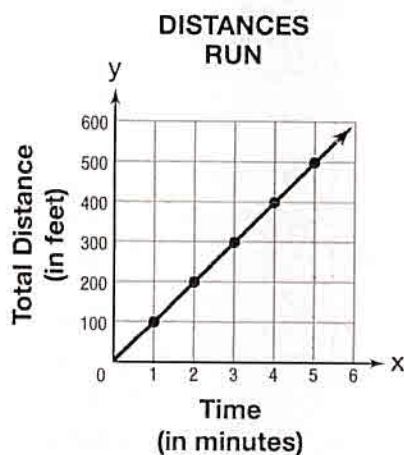
Dyneika is training for a long-distance race. The table below shows the relationship between the number of minutes she has been running and the total distance she has run.

DISTANCES RUN

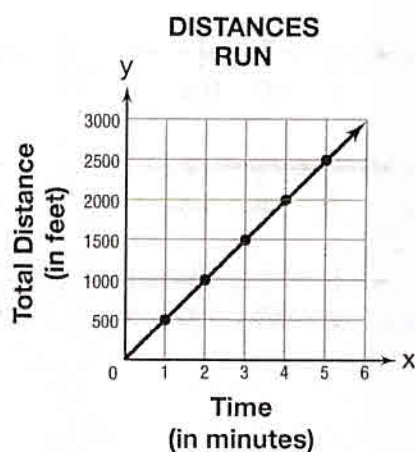
Time in Minutes (x)	Distance in Feet (y)
1	500
2	1,000
3	1,500
4	2,000
5	2,500

Which graph shows this relationship?

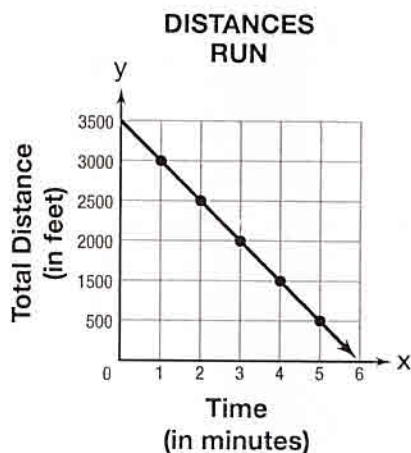
A



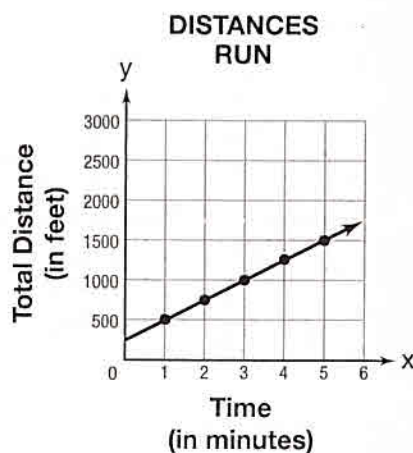
C



B



D



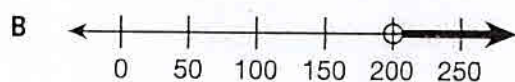
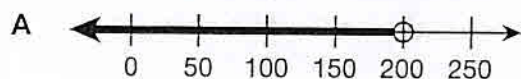
PRACTICE TEST 2

Go On

- 4 Una has 3 times as many coins in her collection as Chase has in his. If c represents the number of coins Chase has in his collection, which expression represents the number of coins Una has in her collection?

A $3 \div c$
B $3 - c$
C $3c$
D $3 + c$

- 5 Dion needs to save more than \$200 to go on vacation with her friends. Which number line shows all the possible amounts Dion can save?



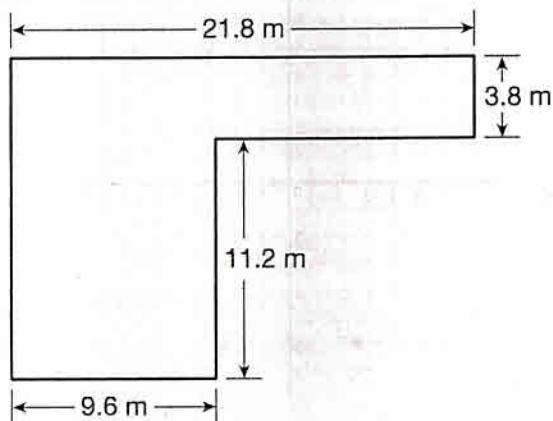
6

Mrs. Green's class orders 3 pizzas that cost \$18.95 each for a class party. Mrs. Green uses two \$5 off coupons to help pay for the pizzas. How much money is needed to pay for the pizzas?

- A \$8.95
- B \$26.85
- C \$46.85
- D \$56.85

7

The figure below shows the shape and the size of the piece of ground that is covered by the welcome center at an outdoor art park.



[not drawn to scale]

What is the area of the ground?

- A 153.88 square meters
- B 190.36 square meters
- C 226.84 square meters
- D 463.64 square meters

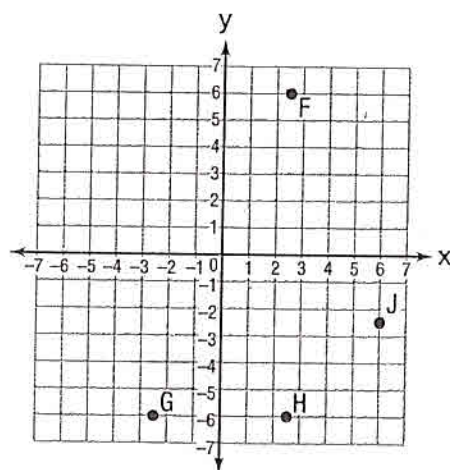
8

Kristine is $5\frac{1}{2}$ feet tall. Her sister Colleen is 57 inches tall. Which of the following is true of their heights?

- A Kristine is exactly 8 inches taller than Colleen.
- B Kristine is exactly 9 inches taller than Colleen.
- C Colleen is exactly 8 inches taller than Kristine.
- D Colleen is exactly 9 inches taller than Kristine.

9

Which point is located at $(2.5, -6)$?



- A point F
- B point G
- C point H
- D point J

10 The length of a line segment is 11 units. One endpoint of the line segment is $R(-2, 1)$. Which point could be the other endpoint of the line segment?

- A $A(-13, -10)$
- B $B(-2, -11)$
- C $C(9, 1)$
- D $D(11, 1)$

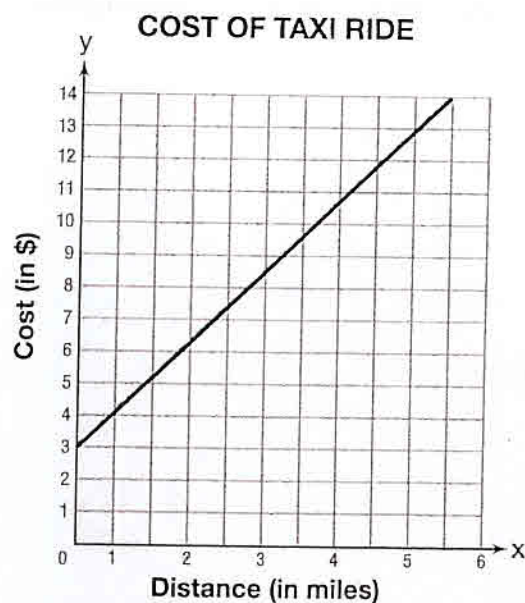
11 Which expression is equivalent to $15x - 6$?

- A $6(9x - 1)$
- B $5(3x - 6)$
- C $3(5x - 2)$
- D $3(5x - 6)$

12 Andrew's hourly wage is \$12.25 per hour. This is \$2.50 more per hour than Kim's hourly wage. Which shows an equation that can be used to find Kim's hourly wage and its solution?

- A $2.50x = 12.25; x = 4.90$
- B $x + 2.50 = 12.25; x = 9.75$
- C $x + 2.50 = 12.25; x = 14.75$
- D $12.25 + 2.50 = x; x = 14.75$

- 13 The graph below shows how much a taxi charges for rides of different distances.



What are the dependent and independent variables in the graph?

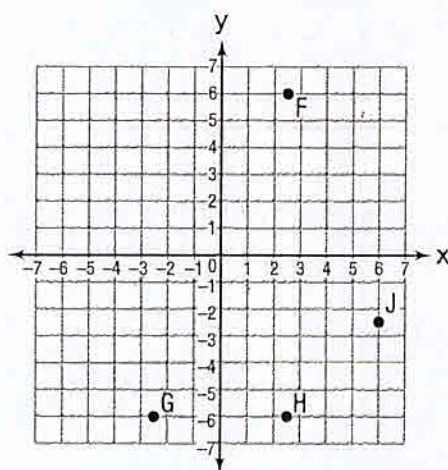
- A Cost and distance are both independent variables.
 - B Cost and distance are both dependent variables.
 - C Cost is the independent variable; distance is the dependent variable.
 - D Cost is the dependent variable; distance is the independent variable.
- 14 Which value of x makes the inequality $\frac{1}{3}x < 5$ true?

- A $x = 12$
- B $x = 15$
- C $x = 18$
- D $x = 30$

- 8 Kristine is $5\frac{1}{2}$ feet tall. Her sister Colleen is 57 inches tall. Which of the following is true of their heights?

- A Kristine is exactly 8 inches taller than Colleen.
- B Kristine is exactly 9 inches taller than Colleen.
- C Colleen is exactly 8 inches taller than Kristine.
- D Colleen is exactly 9 inches taller than Kristine.

- 9 Which point is located at $(2.5, -6)$?



- A point F
- B point G
- C point H
- D point J

15 A parallelogram is drawn on a coordinate plane. Its vertices are located at $(-1, 1)$, $(2, 5)$, $(4, 1)$, and $(7, 5)$. Which comparison of the parallelogram's base and height is correct?

- A The height is 5 units longer than the base.
- B The base is 5 units longer than the height.
- C The height is 1 unit longer than the base.
- D The base is 1 unit longer than the height.

16 What is the value of the expression below?

$$3.22 \div 1.4$$

- A 0.023
- B 0.23
- C 2.3
- D 23

17 Which number of dollars represents a debt greater than \$45.25?

- A -45.75
- B -45
- C 45
- D 45.75

18 The opposite of the opposite of a number is 9. What is the number?

- A -9
- B $-\frac{1}{9}$
- C $\frac{1}{9}$
- D 9

Go On

19 Which expression is equivalent to $3(x - 4) + 2$?

- A $3x - 2$
- B $3x - 32$
- C $3x - 14$
- D $3x - 10$

20 There are 12 boys and 10 girls in the hiking club at Josh's school. Which statement about the students in the hiking club is true?

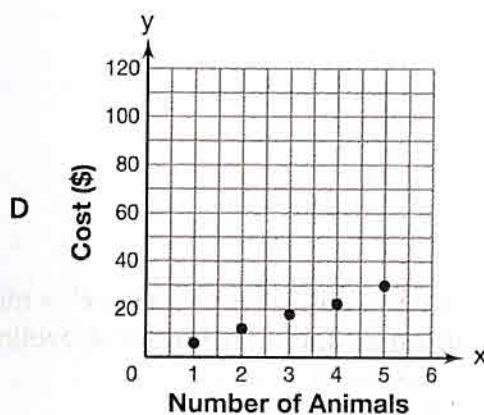
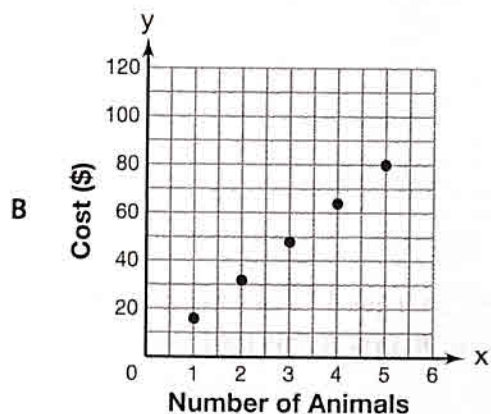
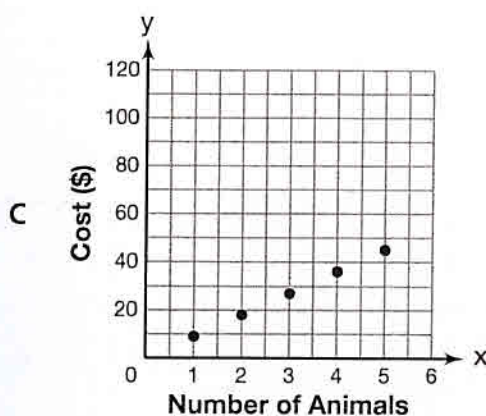
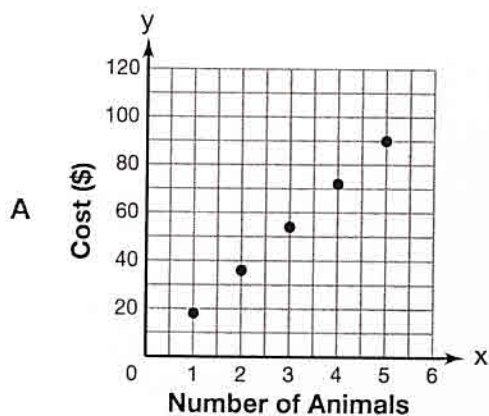
- A Five out of every 11 students are boys.
- B The ratio of girls to boys is 6:5.
- C The ratio of students to boys is $\frac{6}{11}$.
- D For every 6 boys, there are 5 girls.

21 Which equation shows the value of 4 with an exponent of 3?

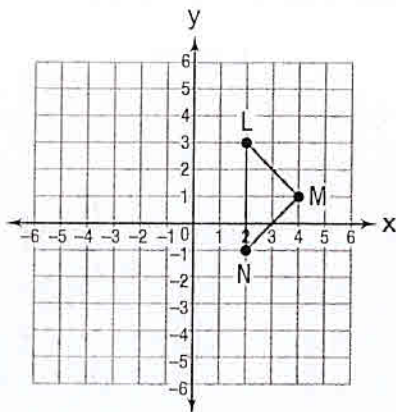
- A $4^3 = 64$
- B $4^3 = 12$
- C $3^4 = 81$
- D $3^4 = 12$

22

Andre carves small wooden animals that he sells at a craft fair. He sells 2 animals for \$18. Which graph shows the cost of 1 to 5 animals?



- 23** Triangle LMN is shown on the grid below.



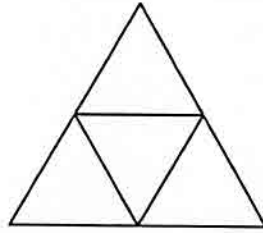
What is the length of side LN?

- 24** Wayne shovels snow to earn extra money. He charges \$15 per hour for his services. A customer paid him \$60 for shoveling out his driveway, his two cars, and a path to his door.

For how long did Wayne shovel snow?

- A $\frac{1}{4}$ hour
- B 4 hours
- C 6 hours
- D 45 hours

- 25 Which three-dimensional figure can be made by folding the net?



- 26 Alison is growing basil in a rectangular section of her garden. This section is $\frac{5}{6}$ yard long and has an area of $\frac{1}{6}$ square yard. What is the width of the section?
- A $\frac{1}{5}$ yard
- B $\frac{5}{18}$ yard
- C $\frac{1}{2}$ yard
- D $2\frac{1}{2}$ yards

- 27** Talia is drawing a rectangle on a coordinate plane that has a perimeter of 14 units. Two vertices of the rectangle are located at $(-3, -1)$ and $(1, -1)$. Where should Talia plot the remaining vertices so that each vertex is in a different quadrant?

A $(-3, -4)$ and $(1, -4)$
B $(-3, 5)$ and $(1, 5)$
C $(-3, 2)$ and $(1, 2)$
D $(-3, 1)$ and $(1, 3)$

- 28** At the farmers market, cherry tomatoes cost \$4.50 for 3 pounds, and heirloom tomatoes cost \$5.98 for 2 pounds. What is the difference in the unit costs of the tomatoes?

A \$1.54
B \$1.49
C \$1.48
D \$0.49

Book 2

TIPS FOR TAKING THE TEST

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- Read each question carefully and think about the answer before choosing your response.
- Look for words that are **bolded**. They are important.
- Read all the answer choices and then go back and pick the best answer for the question.

29 Dan earns an annual salary of \$85,608. How much does he earn every month?

- A \$6,144
- B \$7,134
- C \$7,144
- D \$7,234

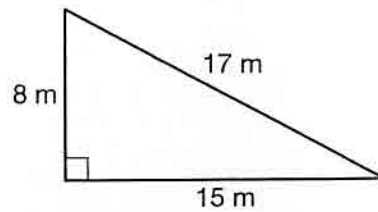
30 A natural food market sells organic granola in bulk for \$1.60 per ounce. Which of the following statements is true?

- A It would cost \$0.20 to buy 8 ounces of granola at the market.
- B It would cost \$13.60 to buy 12 ounces of granola at the market.
- C It would cost \$16.16 to buy 16 ounces of granola at the market.
- D It would cost \$38.40 to buy 24 ounces of granola at the market.

31 The greatest common factor of 40 and 64 is the least common multiple of a pair of numbers. Which two numbers could they be?

- A 8 and 12
- B 5 and 8
- C 4 and 8
- D 2 and 4

- 32 What is the area of the figure shown?



[not drawn to scale]

- A 600 square meters
B 120 square meters
C 60 square meters
D 40 square meters
- 33 Shawn drew a number line that went from -10 to 10 and used it to compare integers. Which statement is true?
- A $-4 < -2$ because -4 is located to the left of -2 on the number line.
B $-4 > 2$ because -4 is located to the left of 2 on the number line.
C $-4 > 0$ because -4 is located to the left of 0 on the number line.
D $2 < 0$ because 2 is located to the right of 0 on the number line.
- 34 Felipe makes salads at a restaurant. On average, Felipe can make 12 salads in 20 minutes. At that rate, how many salads could Felipe make in 45 minutes?
- A 27
B 30
C 56
D 75

35 Which pair of expressions is equivalent?

- A $20p - 18$ and $2(10p - 16)$
- B $g + g + g$ and g^3
- C $3z + 26$ and $3z + 62$
- D $8(2r + 3)$ and $16r + 24$

36 Which of these problems could be solved using the equation $16x = 80$?

- A Marisol has 80 baseball cards. That is 16 more than her brother Ernesto has. How many baseball cards does Ernesto have?
- B Marisol has 16 baseball cards. That is 80 more than her brother Ernesto has. How many baseball cards does Ernesto have?
- C Marisol has 16 baseball cards. That is 80 times more than her brother Ernesto has. How many baseball cards does Ernesto have?
- D Marisol has 80 baseball cards. That is 16 times more than her brother Ernesto has. How many baseball cards does Ernesto have?

37 Which expression is equivalent to 6^3 ?

- A 6×3
- B $3 \times 3 \times 3$
- C $6 \times 6 \times 6$
- D $3 \times 3 \times 3 \times 3 \times 3 \times 3$