

- 1 Simplify the expression below.

$$8 + (-6)$$

- A -14
- B -2
- C 2
- D 14

- 2 Alicia wants to know what percent of the seventh-grade students at her school plays sports. She surveyed a random sample of seventh-grade girls at her school. Which of the following **best** explains why this sample is or is not representative of the population Alicia wants to study?

- A The sample is representative, because it is a random sample.
- B The sample is not representative, because it is a random sample.
- C The sample is not representative, because it does not include every seventh-grade student in the school.
- D The sample is not representative, because it does not include seventh-grade boys.

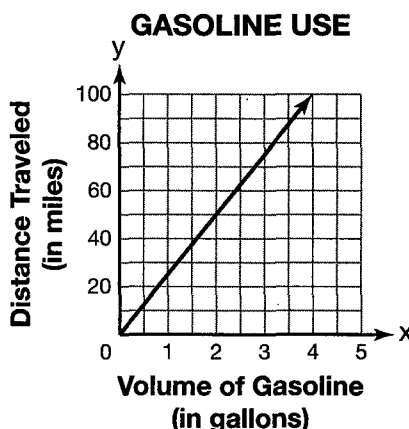
- 3 The table below shows the science test scores for two students in the same class. It also shows the mean and the mean absolute deviation (MAD) for each set of test scores.

Brenda	Richard
70, 75, 80, 80, 80, 80, 80, 80, 85, 90	80, 88, 88, 90, 90, 90, 90, 92, 92, 100
Mean = 80	Mean = 90
MAD = 3	MAD = 2.8

How much do the data overlap?

- A The difference of the means is large and the quotient of the MADs is large, so the data sets do not overlap.
- B The difference of the means is fairly small and the quotient of the MADs is close to 1, so the data sets partially overlap.
- C The difference of the means is 0 and the quotient of the MADs is close to 0, so the data sets completely overlap.
- D The difference of the means is fairly small and the quotient of the MADs is close to 1, so data sets do not overlap.

- 4 Jen makes the graph below to determine how efficient her car is.



What does the point (1, 25) on Jen's graph mean?

- A The unit rate is 1, so the car uses 1 gallon of gas for every mile.
- B The unit rate is 1, so the car travels 1 mile for every gallon of gas.
- C The unit rate is 25, so the car uses 25 gallons of gas for every mile.
- D The unit rate is 25, so the car travels 25 miles for every gallon of gas.
- 5 A bird flies  $\frac{3}{4}$  mile east,  $\frac{1}{8}$  mile west,  $\frac{7}{8}$  mile east, then  $\frac{3}{4}$  mile west. How far from its starting point does the bird end its flight?
- A 0 mile
- B  $\frac{3}{4}$  mile
- C 1 mile
- D  $2\frac{1}{2}$  miles

**Go On**

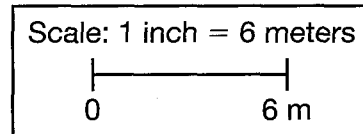
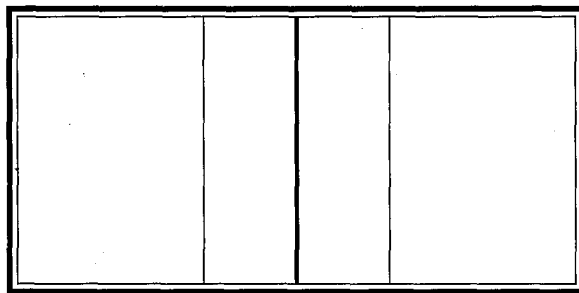
6

A scientist is mixing a chemical solution for an experiment. The solution contains  $\frac{3}{8}$  ounce of a chemical and  $\frac{1}{6}$  ounce saline solution. What is the unit rate of chemical to saline solution?

- A  $\frac{1}{16}$
- B  $\frac{3}{4}$
- C  $\frac{9}{4}$
- D 4

7

Vanessa's scale drawing of a volleyball court, shown below, is 3 inches long and  $1\frac{1}{2}$  inches wide.



[not drawn to scale]

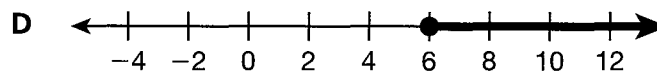
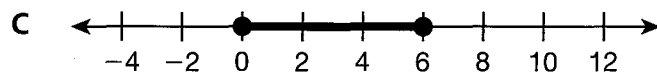
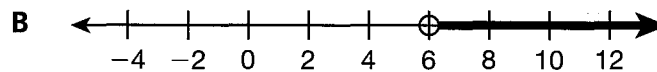
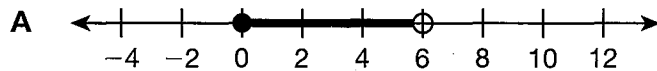
What is the area of the actual volleyball court?

- A 27 square meters
- B 81 square meters
- C 117 square meters
- D 162 square meters

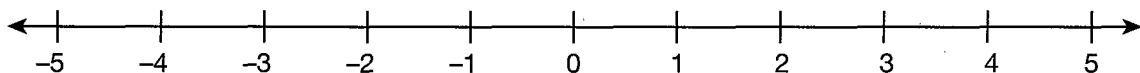
8 The probability of drawing a blue marble from a bag of 26 marbles is  $\frac{6}{26}$ . The probability of drawing a red marble from the same bag is  $\frac{13}{26}$ . Which statement correctly describes the outcomes for drawing one marble from this bag?

- A Drawing a blue marble is more likely than drawing a red marble.
- B Drawing a red marble is neither likely nor unlikely.
- C Drawing a blue marble is impossible.
- D Drawing a red marble is uncertain.

9 Hiro opens his savings account with \$128. At the end of one year, Hiro wants to have a balance of at least \$200 in his account. Hiro will deposit the same amount each month but will make no withdrawals. Which graph shows the amount in dollars,  $d$ , that Hiro should deposit each month?



10 A number line is shown below.



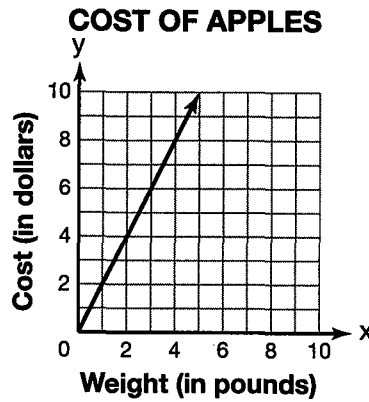
Which of the following expressions represents the distance between 25 and 3 on the number line?

- A  $|-5 + 3|$
- B  $|-5 - 3|$
- C  $|-5 - (-3)|$
- D  $|3 - 5|$

**Go On**

11

The graph below shows the cost that Hondo pays for apples.



What does the point  $(0, 0)$  on this graph mean?

- A The cost of apples is \$0 per pound.
- B There are no apples for Hondo to buy.
- C When Hondo doesn't buy any apples, he does not have to pay anything.
- D Hondo doesn't have to pay for the apples.

12

Which of the following is the decimal equivalent to  $\frac{5}{11}$ ?

- A 0.45
- B  $0.4\bar{5}$
- C  $0.\bar{45}$
- D 0.511

- 13** Xavier and Jeanine each worked a shift today, selling tickets to the school fair for \$12 each. Xavier worked the first shift. During Jeanine's shift, she sold 8 tickets. At the end of the day, the total amount of money from tickets sold was \$240. Which equation could be used to determine  $x$ , the number of tickets Xavier sold?

- A  $12(x + 8) = 240$
- B  $x(12 + 8) = 240$
- C  $12 + 8x = 240$
- D  $12x + 8 = 240$

- 14** Dan wants to determine the probability that the Republican on the ballot will be elected mayor of his town. He surveys a random sample of 25 people in the town who are registered to vote. Based on this data, the Republican on the ballot has a 36% probability of being elected. Dan now wants to gauge the variation in predictions, to determine how accurate this probability may be. Which of the following would be the **best** method for him to do this?

- A Ask the same 25 people he originally surveyed to make sure they are convinced of their choices.
- B Survey several more random samples of 25 people each from people in the town who are registered to vote.
- C Survey several more random samples of 25 people each from the Republican voters in town.
- D Survey a random sample of 25 people who are registered to vote in another town.

**15**

Nate measured the side length and perimeter of five equilateral triangles, as shown in the table below.

**MEASURES OF EQUILATERAL TRIANGLES**

Side Length (in inches)	2	3	5	7	9
Perimeter (in inches)	6	9	15	21	27

Which of the following best explains why these values are or are not in a proportional relationship?

- A They are proportional, because the ratio of perimeter to side length is always 3:1.
- B They are proportional, because the perimeter always increases by the same amount from column to column.
- C They are not proportional, because the side length increases by varying amounts from column to column.
- D They are not proportional, because the difference between side length and perimeter is different for each column.

**16**

A recipe for salad dressing calls for  $\frac{1}{4}$  cup vinegar to  $\frac{2}{3}$  cup oil. How many cups of oil are needed for each cup of vinegar?

- A  $\frac{1}{6}$  cup
- B  $\frac{3}{8}$  cup
- C  $2\frac{2}{3}$  cups
- D 8 cups

- 17 A pair of sneakers regularly costs \$113.95 and they are on sale for 10% off. Which of the following is the best estimate for the cost of the sneakers after the discount? (Neglect sales tax)

A 91  
B 97  
C 103  
D 109

- 18 Which expression is equivalent to  $45 - 20s$ ?

A  $25 - s$   
B  $5(9 - 4s)$   
C  $s(45 - 20)$   
D  $5s(9 - 4)$

- 19 Simplify the expression below.

$$-4\left(-\frac{1}{8} + 0.3\right)$$

A  $-1.7$   
B  $-0.7$   
C  $0.8$   
D  $2$

**Go On**



- 20 Which of the following is an expanded form of the expression below?

$$-5a(3a^2 - a + 6)$$

- A  $-15a^2 - 5a - 30$
- B  $-15a^3 - 5a^2 + 30a$
- C  $-15a^3 + 5a^2 - 30a$
- D  $15a^3 - 5a^2 - 30a$

- 21 A rectangular frame has a length of  $\frac{3}{4}$  foot and a width of  $\frac{1}{2}$  foot. What is the perimeter of the frame?

- A  $1\frac{1}{4}$  feet
- B  $1\frac{3}{4}$  feet
- C  $2\frac{1}{4}$  feet
- D  $2\frac{1}{2}$  feet

- 22 A cube with sides numbered 1 to 6 is rolled 300 times. What is the **best** prediction for the number of times that a 1 or 2 would be rolled?

- A exactly 50 times
- B about 50 times
- C exactly 100 times
- D about 100 times

23 Simplify the expression below.

$$-2z^2 + 6z + 8 + z^3 - z^2 - 4$$

- A  $-2z^2 + 6z + 4$
- B  $z^3 - z^2 + 6z + 4$
- C  $z^3 - 3z^2 + 6z - 4$
- D  $z^3 - 3z^2 + 6z + 4$

24 Which table shows a proportional relationship between the hours and the distance flown?

TOTAL DISTANCE FLOWN

A

Time (in hours)	Distance (in miles)
1	250
2	500
3	1,000
4	2,000

TOTAL DISTANCE FLOWN

C

Time (in hours)	Distance (in miles)
1	600
2	600
3	600
4	600

TOTAL DISTANCE FLOWN

B

Time (in hours)	Distance (in miles)
1	550
2	1,100
3	1,650
4	2,200

TOTAL DISTANCE FLOWN

D

Time (in hours)	Distance (in miles)
1	400
2	650
3	900
4	1,150

**25** A factory produces  $c$  cans of paint in  $h$  hours according to the equation  $c = 50h$ . Which of the following represents the unit rate of cans produced per hour?

- A 50
- B  $h$
- C  $c$
- D  $\frac{h}{c}$

**26** A spinner is divided into 10 congruent sections, numbered 1 through 10. If Cleo spins the spinner once, what is the probability that it will land on a multiple of 4?

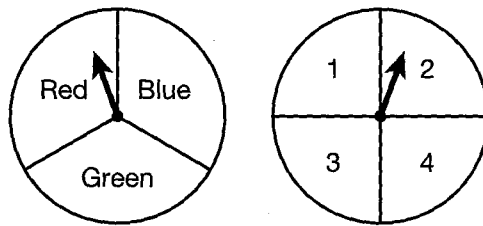
- A  $\frac{1}{5}$
- B  $\frac{1}{4}$
- C  $\frac{2}{5}$
- D  $\frac{1}{2}$

**27** If  $a$ ,  $b$ ,  $c$ , and  $d$  are non-zero integers, which of the following is equal to  $\frac{a}{b} \cdot \frac{c}{d}$ ?

- A  $\frac{ac}{bd}$
- B  $\frac{ad}{bc}$
- C  $\frac{ac}{b+d}$
- D  $\frac{ad}{b+d}$

28

James has the spinners shown below. He makes the table to show the possible outcomes of spinning each spinner once.



**OUTCOMES OF TWO SPINNERS**

	1	2	3	4
Red	R-1	R-2	R-3	R-4
Blue	B-1	B-2	B-3	B-4
Green	G-1	G-2	G-3	G-4

What is the probability that the first spinner will land on green and the second will land on an odd number?

- A  $\frac{1}{6}$
- B  $\frac{1}{3}$
- C  $\frac{2}{3}$
- D  $\frac{5}{6}$

**STOP**

## 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 writing 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

Hee Sun wants to estimate the average word length in a book. She randomly chooses 20 words in the book, as shown.

receiver	there	minutes	friendly	advanced
towards	the	instead	and	no
suspense	so	depth	in	lonely
sighed	what	was	answered	of

Based on this sample, which is the best estimate of the mean word length in the book?

- A 5
- B 6
- C 7
- D 8

30

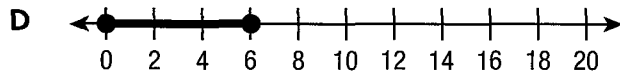
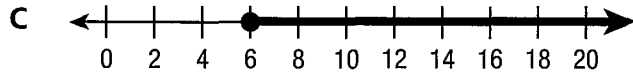
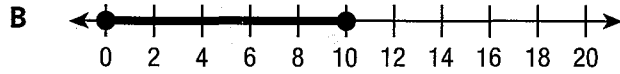
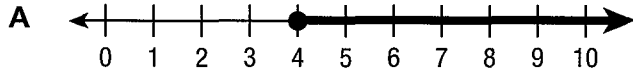
Which expression is equivalent to  $\frac{3}{4} \cdot (x + 12)$ ?

- A  $x + 9$
- B  $\frac{3}{4}x + \frac{36}{48}$
- C  $\frac{3}{4}x + 12$
- D  $\frac{3}{4}x + 9$

**Go On**

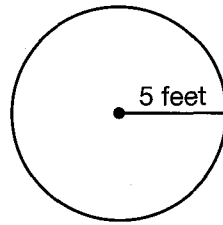
31

Hudson is buying cheese and crackers for a party. He can spend up to \$40. He spends \$10 on crackers. The cheese he wants to buy costs \$5 per pound. Which of the following graphs represents the possible numbers of pounds of cheese Hudson can buy?



32

Kendrick is putting a border around a circular flowerbed, as shown.



[not drawn to scale]

What length of border, in feet, does Kendrick use? Use 3.14 for  $\pi$ .

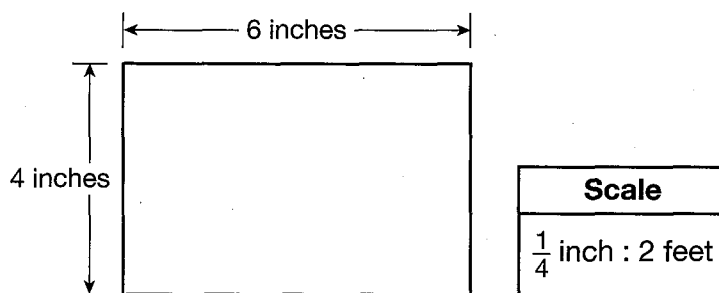
- A 15.7 feet
- B 31.4 feet
- C 62.8 feet
- D 78.5 feet

- 33 Blake simplified the expression shown below as follows.

$$\begin{array}{ll}
 12 - 28 + 4 + (-8) & \\
 -16 + 4 + (-8) & \text{Step 1} \\
 -12 + (-8) & \text{Step 2} \\
 -4 & \text{Step 3}
 \end{array}$$

Which of the following **best** describes Blake's mistake?

- A In Step 1, she should have replaced  $12 - 28$  with 16, not  $-16$ .
- B In Step 1, she should have replaced  $12 - 28$  with  $-40$ , not  $-16$ .
- C In Step 2, she should have replaced  $-16 + 4$  with  $-20$ , not  $-12$ .
- D In Step 3, she should have replaced  $-12 + (-8)$  with  $-20$ , not  $-4$ .
- 34 Nina makes the scale drawing shown of a rectangular room that needs new carpet.



What area will the new carpet cover?

- A 24 square feet
- B 96 square feet
- C 192 square feet
- D 1,536 square feet

**Go On**



**35**

A bird is flying northeast. In the same time, it flies  $\frac{3}{8}$  mile east, it flies  $\frac{5}{6}$  mile north. How many miles does the bird fly east for every mile it travels north?

- A  $2\frac{2}{9}$  miles east for every mile north
- B  $\frac{3}{5}$  mile east for every mile north
- C  $\frac{9}{20}$  mile east for every mile north
- D  $\frac{5}{16}$  mile east for every mile north

**36**

The water level in a lake has changed by  $-16.8$  feet over the last 2.5 years. What is the average change in the water level each year?

- A  $-6.72$  feet
- B  $-0.672$  feet
- C  $0.672$  feet
- D  $6.72$  feet

**37**

Toby bought a pair of jeans and a sweater. The pair of jeans cost \$30 and the sweater cost \$35. If sales tax is 6%, how much did Toby spend in total for the jeans and sweater?

- A \$65.12
- B \$66.80
- C \$68.90
- D \$71.00

38

Jonas is conducting an experiment in which he repeatedly draws a marble from a bag without looking, records its color, and replaces it. He conducts 60 trials in the experiment, with the results shown below.

**JONAS' RESULTS**

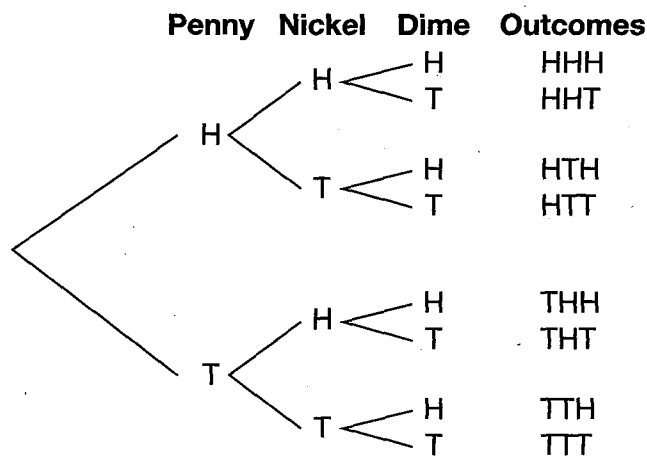
<b>Result</b>	Black	White	Gray
<b>Frequency</b>	20	24	16

If Jonas were to conduct the same experiment with 3,000 draws, approximately how many times should he expect to draw a white marble?

- A 720
- B 1,200
- C 2,000
- D 2,400

39

Steve makes the tree diagram shown below to find the possible outcomes of tossing a penny, a nickel, and a dime.



What is the probability that all three coins land on the same side?

- A  $\frac{1}{8}$
- B  $\frac{1}{4}$
- C  $\frac{3}{4}$
- D  $\frac{7}{8}$

**Go On**

- 40** Talia wants to find out if the students at her school would like to have a monthly student-run newspaper. Which survey will result in a random sample?
- A She asks each student in her homeroom.
  - B She asks all seventh graders in the school.
  - C She picks 50 names at random, sends surveys, and scores those that return.
  - D She picks every eighth student that enters the school cafeteria on Wednesday.

- 41** Which of the following **do not** describe a situation in which opposite quantities combine to make 0?
- A Thomas loses 5 yards on the first down and then gains 3 yards during the second down.
  - B A helium atom has 2 electrons, each with a  $-1$  charge and 2 protons, each of which is  $+1$  charge.
  - C  $p - q = p + (-q)$ .
  - D Stanley owes his friend ten dollars. After the first week, Stanley pays his friend 7 dollars. After the second week, Stanley pays his friend 3 dollars.

- 42** Betty has a dog-walking service. Last year, she charged \$5.00 per dog for each  $\frac{1}{2}$  mile. This year, she increases the charge per dog by 5%. How much does she earn this year to walk a dog for  $1\frac{1}{2}$  miles?
- A \$3.50
  - B \$5.25
  - C \$15.75
  - D \$22.50

- 43 What is the value of the expression below?

$$-\frac{2}{5} \div \left(\frac{8}{7} \times -\frac{7}{8}\right) \div -1$$

- A  $-1$   
B  $-\frac{2}{5}$   
C  $\frac{2}{5}$   
D  $1$

- 44 The table below shows the results of drawing one marble from a bag of marbles.

**DRAWING A MARBLE**

Result	Frequency
Blue	4
Red	14
Green	20
Yellow	12

What is the probability of drawing a yellow marble?

- A  $0.12$   
B  $0.24$   
C  $0.25$   
D  $0.76$

- 45 Which expression is equal to the expression below?

$$-4x(2x - 3) + 10x^2$$

- A  $-8x^2 - 2x$   
B  $-8x^2 + 22x$   
C  $2x^2 - 12x$   
D  $2x^2 + 12x$

**Go On**

- 46** The table below shows the distance,  $d$ , that a toy car travels over time  $t$ .

**MOVEMENT OF A TOY CAR**

Time (in seconds)	Distance (in meters)
2	4.9
4	9.8
6	14.7
8	19.6

Which equation represents the relationship of distance,  $d$ , and time,  $t$ , for the car?

- A  $d = 4.9t$
- B  $d = 2t$
- C  $d = 0.41t$
- D  $d = 2.45t$

- 47** Which expression is equivalent to  $25.6 - 2n + 12.1$ ?

- A  $-2n + 37.7$
- B  $13.5 - 2n$
- C  $n + 35.7$
- D  $35.7n$

- 48** A jacket has a regular price of \$60. It is on sale for 10% off. The sales tax is 8%. What is the total cost of the jacket including tax?

- A \$49.68
- B \$54.00
- C \$58.32
- D \$97.20

- 49** Keith and his family are moving to a new neighborhood. According to statistics for that neighborhood, there is a 3.5% chance that there will be another middle school student living on the same block as Keith. Which of the following is the best interpretation of this probability?
- A It is unlikely that there will be another middle school student on the same block.
  - B It is neither likely nor unlikely that there will be another middle school student on the same block.
  - C It is likely that there will be another middle school student on the same block.
  - D It is likely that there will be 3 or 4 other middle school students on the same block.
- 50** Jamal feeds 14.4 pounds of dog food to the 24 dogs at a shelter. Each dog gets the same amount of food. Six of the dogs eat only 0.4 pound of food each. How much food is left in the bowls of these six dogs in all?
- A 0.2 pound
  - B 0.6 pound
  - C 1.2 pounds
  - D 12 pounds
- 51** The perimeter of an isosceles triangle is 42 inches. The base of the triangle (the non-equivalent side) measures 10 inches. How long, individually, are the other sides?
- A 42 inches
  - B 32 inches
  - C 16 inches
  - D 14 inches

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**Go On**

**52**

Flora and Rico are comparing the length of words in their fifth and seventh grade history books. Each picks a random sample of words from their books and counts the letters in the words. The data they collect is shown in the table.

**LENGTH OF WORDS IN HISTORY BOOKS**

Flora's Fifth Grade Book	Rico's Seventh Grade Book
7, 4, 2, 8, 6, 4, 4, 8, 6, 2	6, 9, 3, 11, 10, 2, 2, 7, 5, 4

Which statement is **true**?

- A The length of words in both books is the same because the medians are the same.
- B The length of words in Rico's book is greater than in Flora's book because the mean and range of the data Rico collects is greater than the mean and range of the data Flora collects.
- C The length of words in Flora's book is greater than in Rico's book because the mode of the data Flora collects is greater than the mode of the data Rico collects.
- D The length of words in Flora's book is greater than in Rico's book because the range of the data Flora collects is greater than the range of the data Rico collects.

**53**

The price of a phone is marked down from \$350 to \$287 for a sale. The following week, the phone is marked down again by the same percent as during the week before. How much lower than the original price is the price after the second markdown?

- A \$51.66
- B \$114.66
- C \$126.00
- D \$235.34

**54** A cell phone plan charges \$39.90 a month, plus \$0.05 per text message. Which expression can be solved to find how many text messages,  $x$ , can be sent while still keeping the monthly bill under \$50?

- A  $39.9 + 0.05x > 50$
- B  $x(39.9 + 0.05) < 50$
- C  $39.9 + 5x < 50$
- D  $39.9 + 0.05x < 50$

**55** During a typing test, Julissa typed 75 words in  $2\frac{1}{2}$  minutes and 150 words in 5 minutes. Which of the following best represents her unit rate?

- A 2 words per minute
- B 5 words per minute
- C 30 words per minute
- D 50 words per minute

**STOP**



## 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.
- Be sure to show your work when asked. You may receive partial credit if you have shown your work.

- 56** Jasmine plans to take a short vacation in two weeks. Before her vacation, she wants to earn more than \$700 each week. The store where she works pays her \$500 per week plus 5% of her sales for that week. How much in sales,  $s$ , does she need to make each week to meet her goal? Write and solve an inequality to answer this question.

*Show your work.*

*Answer* \$ \_\_\_\_\_

57

Bernice wants to hang a painting in her apartment. The wall she wishes to hang it on is 12 feet tall and 20 feet wide. The painting is  $5\frac{1}{2}$  feet wide and  $9\frac{1}{2}$  feet tall. She wants the painting to be centered on the wall both vertically and horizontally. Bernice estimates that the painting should be  $1\frac{1}{4}$  feet up from the floor and  $5\frac{1}{4}$  feet along the wall. Are her estimates correct? On the lines below, answer the question and explain your thinking. Include correct estimates if necessary.

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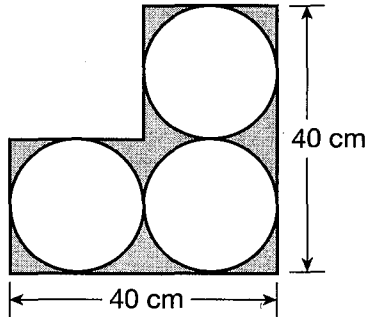
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58

Janna has three flat plates, each the same size. She stores them in an L-shaped drawer, as shown so that they fit snugly inside, with no spaces between the edges of the drawer and the plates. Approximately how many square centimeters of the bottom of the drawer are **not** covered by plates?



[not drawn to scale]

*Show your work.*

*Answer* \_\_\_\_\_  $\text{cm}^2$

**Go On**

59

John, Paul, and George gather aluminum and tin cans to exchange for money at the local recycling plant. One day, the three men decided to combine their findings for the day. John collected  $3\frac{1}{4}$  pounds of cans, Paul collected  $6\frac{1}{3}$  pounds of cans, and George managed to collect the most with  $11\frac{1}{6}$  pounds of cans. What percent of the total amount of cans did George collect? Round your answer to the nearest percent.

*Show your work.*

*Answer* \_\_\_\_\_ %

60

Freddy's batting average is  $\frac{2}{5}$ . That means the probability of him getting a hit any time he is at bat is 2 out of 5. Estimate the probability that it will take at least three times at bat for him to get a hit. Let the digits 0–3 represent hits and 4–9 represent not getting a hit. Perform 20 trials of a simulation using the random digits in the table below to determine your answer.

73685	65078	75730	27341
41367	39982	63915	17822
28573	53998	48623	52551

*Show your work.*

*Answer* \_\_\_\_\_

**Go On**

**61**

Show two different approaches to calculating the sale cost of a jacket, regularly \$200, which has a discount of 30%. Include the final answer for each method shown. Neglect sales tax for this problem.

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62

Andre fills a small pool from a garden house. The table below shows the relationship between the time and the volume of water in the pool.

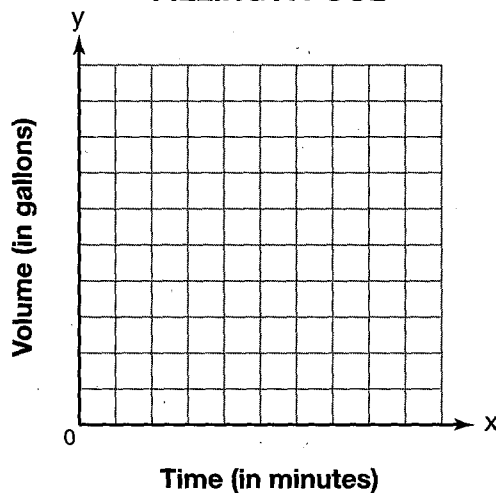
FILLING A POOL

Time (in minutes)	Volume (in gallons)
0.5	1
1.5	3
2.5	5
4.5	9

**Part A**

On the grid below, make a graph of the data from the table.

FILLING A POOL



**Go On**



**Part B**

Based on your graph, are the time and volume proportionally related? On the lines below, answer the question and explain your reasoning.

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**Part C**

Based on your graph, at what rate does water flow out of the hose?

*Show your work.*

*Answer* \_\_\_\_\_ gallons per minute

- 63** Freya has a spinner that is divided into three congruent sections. Each section is labeled with one of the letters A, B, or C. She also has a tetrahedron shaped die (four sided polygon) with each side assigned one of the letters D, E, F, or G. Freya's experiment is to simultaneously spin the spinner and roll the die, recording the pair of the letters as she goes.

### Part A

Write a list, or tree diagram, which outlines all of the possible outcomes in Freya's experiment.

### Part B

If Freya repeats her experiment 600 times, how many times can she expect to get a vowel, A and E, on both the spinner and the die?

*Show your work.*

Answer \_\_\_\_\_

**Go On**

**64**

Kedre wants to know the average height of soccer players at her school. She randomly surveyed 12 soccer players. Her data is below.

70, 64, 62, 66, 59, 68, 63, 66, 60, 63, 64, 70

**Part A**

According to Kedre's survey, predict the average height of the soccer team? Round answer to the nearest tenth of an inch.

*Show your work.*

*Answer* \_\_\_\_\_ inches

**Part B**

Kedre asked her friend Lilly to conduct the same experiment. Lilly randomly surveyed 12 soccer players and predicted that the average height of the soccer team is 65.1 inches.

By how many inches does Lilly's prediction vary from Kedre's? On the lines below explain why this variation is or is not reasonable.

*Answer* \_\_\_\_\_

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**65** An office building with 120 people in it were asked how they traveled to and from the office. The frequency table below represents the results of this survey.

**TRAVEL SURVEY RESULTS**

Walked	Biked	Bus	Subway	Car
32	11	45	28	4

**Part A**

If a person from the office building is chosen at random, which means of transportation are they **most likely** to have used? On the lines below, answer the question and explain your reasoning.

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**Part B**

Cecil takes the subway to the office and works with 13 people, not counting himself. What is a good estimate of the number of people in his office that Cecil rides the subway with?

*Show your work.*

Answer \_\_\_\_\_ people

**STOP**