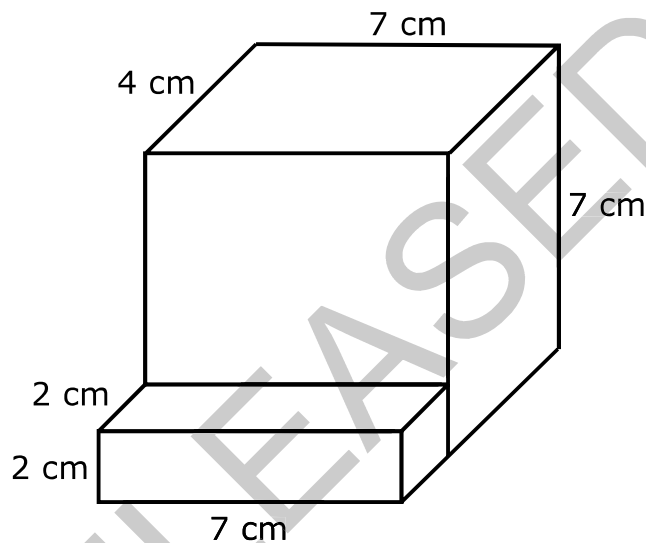




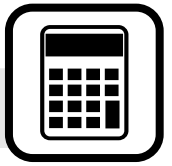
Questions 21 through 25 require you to write your answers in the boxes provided on your answer sheet. A sample grid is shown below each question, but your answer must be properly entered on the answer sheet to be scored. Write only one number or symbol in each box and fill in the circle in each column that matches what you have printed. Fill in only one circle in each column.

21 What is the volume of the figure, in cubic centimeters?



Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, ., and / are allowed in your answer. Answers that are mixed numbers must be entered as an improper fraction or decimal.

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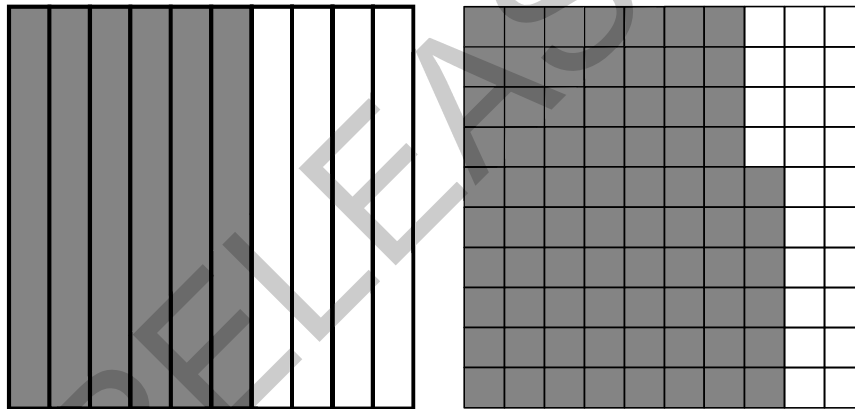


- 22 A school has 45 classrooms. There are 27 students in each classroom. How many students are in all 45 classrooms?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, ., and / are allowed in your answer. Answers that are mixed numbers must be entered as an improper fraction or decimal.

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- 23 Each large square has a value of one.



What is the value of the shaded parts of the large squares?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, ., and / are allowed in your answer. Answers that are mixed numbers must be entered as an improper fraction or decimal.

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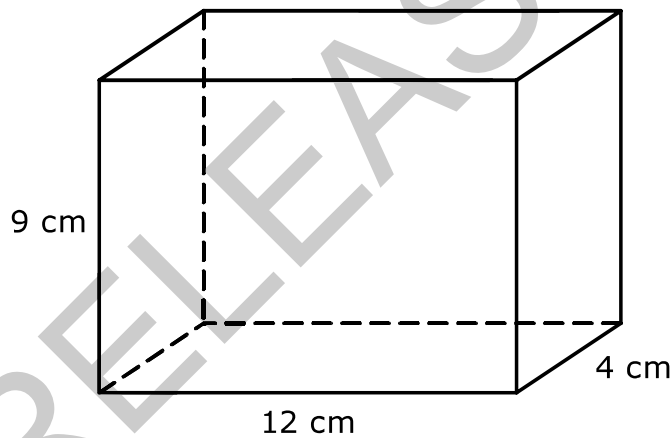


- 24 Eight gardeners equally share  $\frac{1}{2}$  of a pile of pine needles. What fraction of the pile does each gardener receive?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, ., and / are allowed in your answer. Answers that are mixed numbers must be entered as an improper fraction or decimal.

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- 25 What is the volume of the rectangular prism, in cubic cm?

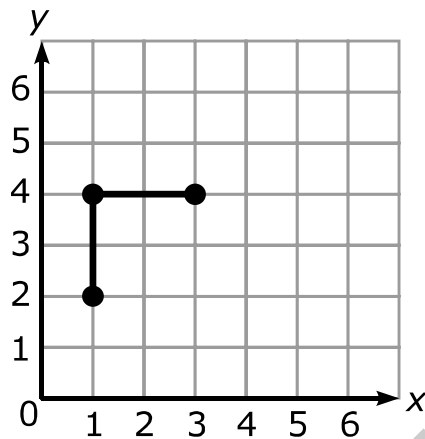


Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, ., and / are allowed in your answer. Answers that are mixed numbers must be entered as an improper fraction or decimal.

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- 26 Katie will complete a square on the coordinate plane.



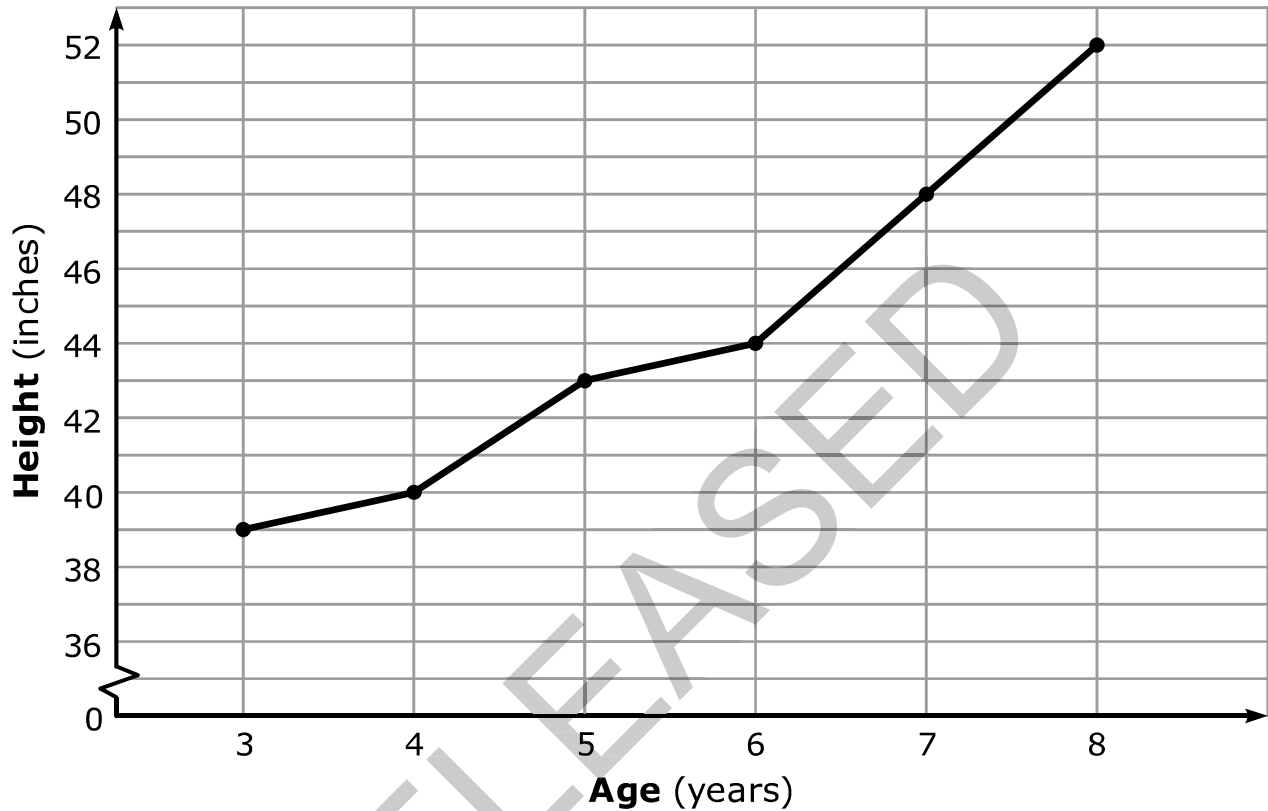
Which coordinate pair will complete this square?

- A (2, 3)
  - B (3, 2)
  - C (4, 1)
  - D (1, 4)
- 27 The length of a shoe is 25 centimeters. How long is the shoe in meters?  
(Note: 1 meter = 100 centimeters)
- A 0.25 meter
  - B 2.5 meters
  - C 250 meters
  - D 2,500 meters



28 The height of a boy, from age 3 to age 8, is shown on the line graph.

**Height of a Boy**



How many inches did the boy grow between 5 and 8 years of age?

- A 8 inches
- B 9 inches
- C 10 inches
- D 11 inches



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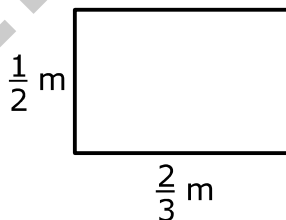
29 Which expression matches the words “eight less than the product of twelve and four”?

- A  $8 - (12 \times 4)$
- B  $8 - (12 \div 4)$
- C  $(12 \times 4) - 8$
- D  $(12 \div 4) - 8$

30 Alyssa walked 1.34 fewer miles than Emily. Alyssa walked 2.56 miles. How many miles did Emily walk?

- A 1.22 miles
- B 1.42 miles
- C 3.8 miles
- D 3.9 miles

31 What is the area of the rectangle?



- A  $\frac{1}{3}$  square meter
- B  $\frac{1}{6}$  square meter
- C  $1\frac{1}{6}$  square meters
- D  $1\frac{1}{3}$  square meters



32 Regina has 3 bags of marbles. There are 25 marbles in each bag. She wants to put an equal number of marbles into 5 bags. Which expression would show how many marbles can go in each bag?

- A  $3 \div 25 \times 5$
- B  $(25 \times 3) \div 5$
- C  $(25 \div 3) \times 5$
- D  $3 \times 25 \times 5$

33 Lou has two sets of numbers.

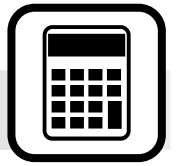
- The first set starts with 3 and follows a pattern of increasing by 5.
- The second set starts with 39 and follows a pattern of decreasing by 6.

How many numbers do the two sets have in common?

- A 5
- B 4
- C 3
- D 2

34 Mr. Parker is graphing a quadrilateral. He wants the quadrilateral to be a trapezoid. He has already graphed vertices at  $(1, 1)$ ,  $(3, 3)$ , and  $(5, 3)$ . Which choice is a point that could be the 4th vertex?

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



35 Mr. Wilson bought a bag of birdseed and put half of it in his bird feeder. He split the other half equally among his 4 pet birds. How much of the bag did each pet bird get?

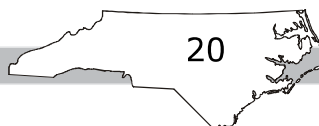
A  $\frac{1}{8}$  bag

B  $\frac{1}{4}$  bag

C  $\frac{1}{2}$  bag

D  $\frac{3}{4}$  bag

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36 The line graph shows the monthly attendance at a fun park for a year.



Which statement describes the data on the line graph?

- A The highest attendance was during January and February.
- B The attendance decreased between October and November.
- C The lowest attendance was during September and October.
- D The attendance increased between July and August.



37 Fred bought a shirt and a wallet for a total of \$34.26 before tax. The price of the wallet was \$15 less than the price of the shirt. What was the price of the shirt?

- A \$19.25
- B \$19.83
- C \$24.63
- D \$24.75

38 How many feet are in 2,241 inches?

(Note: 1 foot = 12 inches)

- A 62.25 feet
- B 186.75 feet
- C 189.25 feet
- D 747.00 feet

39 A pattern of ordered pairs is shown.

$(0, 1), (2, 4), (4, 7), (6, 10)$

The pattern continues. What is the ***eighth*** ordered pair in the pattern?

- A  $(8, 13)$
- B  $(14, 18)$
- C  $(14, 22)$
- D  $(16, 19)$



40 Which choice is the expanded form for 602.049?

- A  $6 \times 100 + 2 \times 1 + 4 \times \left(\frac{1}{10}\right) + 9 \times \left(\frac{1}{1,000}\right)$
- B  $6 \times 100 + 2 \times 10 + 4 \times \left(\frac{1}{10}\right) + 9 \times \left(\frac{1}{100}\right)$
- C  $6 \times \left(\frac{1}{100}\right) + 2 \times \left(\frac{1}{1}\right) + 4 \times \left(\frac{1}{100}\right) + 9 \times \left(\frac{1}{1,000}\right)$
- D  $6 \times 100 + 2 \times 1 + 4 \times \left(\frac{1}{100}\right) + 9 \times \left(\frac{1}{1,000}\right)$

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