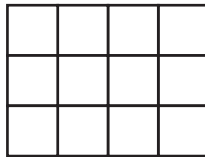


Assessment 1

Answer questions 1–64. Answer multiple-choice and multi-select problems on the Answer Form. Answer all other problems in your test booklet.

1

Select all the expressions that can be used to find the area of the rectangle.



- Ⓐ $3 + 3 + 3$
- Ⓑ $4 + 4 + 4$
- Ⓒ 3×4
- Ⓓ 4×3
- Ⓔ $3 + 4$

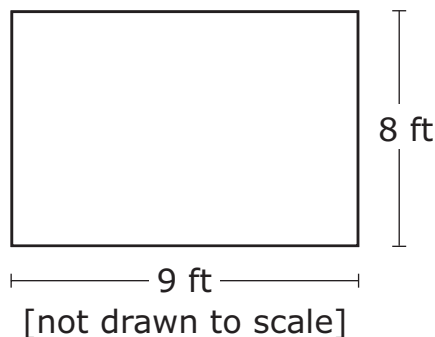
2

Jerome started reading at 6:35. He finished at 7:30. How long did Jerome read?

- Ⓐ 45 minutes
- Ⓑ 55 minutes
- Ⓒ 60 minutes
- Ⓓ 65 minutes

Go On

The figure below shows the length and width of Mr. Jackson's kitchen.



Part A

Mr. Jackson plans to cover his entire kitchen floor with 1-square foot tiles. There will be no gaps between the tiles and they will not overlap. How many tiles will Mr. Jackson need?

Answer _____

Part B

What is the area of Mr. Jackson's kitchen?

Answer _____ square feet

Select all the equations that can be used to find the missing number in this equation.

$$72 \div 9 = \square$$

- Ⓐ $63 + 9 = 72$
- Ⓑ $72 \div 3 = 24$
- Ⓒ $8 \times 9 = 72$
- Ⓓ $72 \div 12 = 6$
- Ⓔ $72 \div 8 = 9$

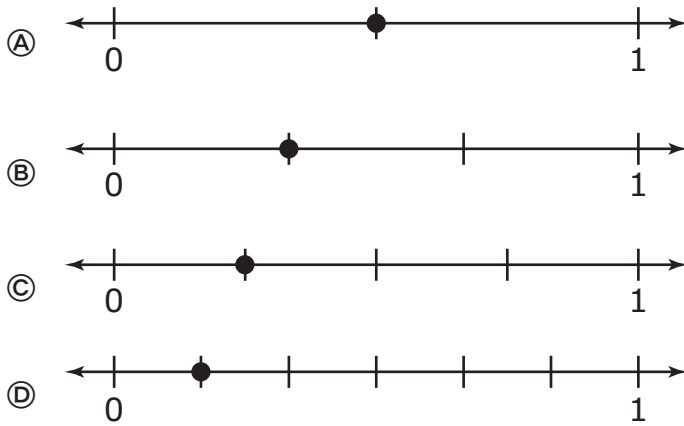
There were 63 students on a trip to a local camp. The students were divided into 7 equal groups. Which equation can be used to find the number of students in each group?

- Ⓐ $7 + \square = 63$; 56 students in each group
- Ⓑ $63 - \square = 7$; 56 students in each group
- Ⓒ $63 + 7 = \square$; 70 students in each group
- Ⓓ $63 \div 7 = \square$; 9 students in each group

A fraction of the figure below is shaded.



Which number line shows the same fraction?



A square has side lengths of 1 meter. What is the area of the square?

- Ⓐ 1 meter
- Ⓑ 1 square meter
- Ⓒ 4 meters
- Ⓓ 4 square meters

On the first day of football practice, the coach divided the 20 players into groups of 4 players. Which expression could be used to find how many groups he made?

- Ⓐ 20×4
- Ⓑ $20 \div 4$
- Ⓒ $20 - 4$
- Ⓓ $20 + 4$

Julian has 56 books. He arranges them in groups as shown below.



Part A

Write an expression that could be used to find the number of books in each group.

Answer _____

Part B

Julian buys 16 more books and groups them in the same way as his other books. Write an equation to show how many groups of books, g , Julian has in all. Then solve.

The table below shows the number of bars of different kinds of soap a company made.

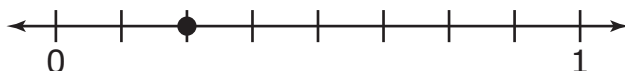
Name	Number of Bars
Ocean Breeze	60
Pumpkin Spice	80
Fresh Lemon	70
Holiday Cheer	50

Complete the picture graph below to correctly display all of the data.

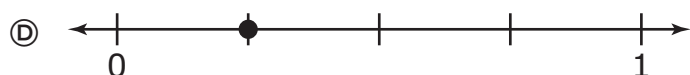
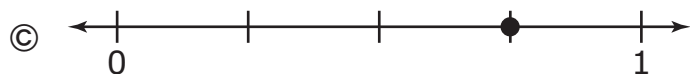
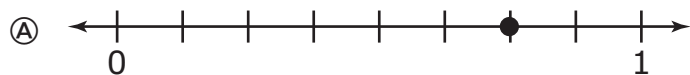
Key
<div>soap</div> = _____

Go On

A fraction is shown on the number line below.



Which of the following number lines shows a fraction equivalent to the fraction shown on the number line above?



Select all the equations that can be used to find the solution.

$$24 \div 6 = \square$$

Ⓐ $6 \times \square = 24$

Ⓑ $6 \div \square = 24$

Ⓒ $24 \div \square = 6$

Ⓓ $6 \times 24 = \square$

Ⓔ $\square - 24 = 6$

Ⓕ $\square \times 6 = 24$

Miguel puts the files on his computer into 8 folders. He puts 30 files into each folder.

Part A

How many files does Miguel have in all?

Answer _____

Part B

Miguel wants to use fewer folders. He will put the same number of files in each folder. Look at the different numbers of folders in the table below. Write an X under the number of files Miguel would put in each of those folders.

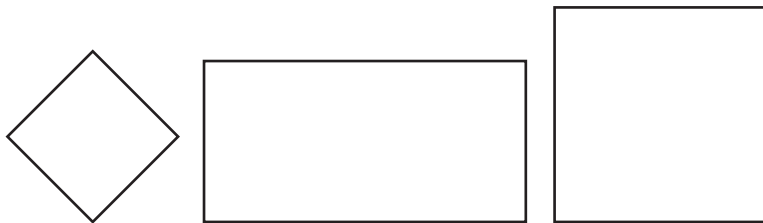
		Number of Files in Each Folder		
		40	60	80
Number of Folders	4			
	3			
	6			

A rectangle has a width of 10 inches. The perimeter of the rectangle is 60 inches. What is the length of the rectangle?

- Ⓐ 6 inches
- Ⓑ 20 inches
- Ⓒ 25 inches
- Ⓓ 50 inches

Go On

Select all the terms that can be used for all three figures.



- Ⓐ Rhombus
- Ⓑ Pentagon
- Ⓒ Quadrilateral
- Ⓓ Rectangle
- Ⓔ Square
- Ⓕ Parallelogram

Look at the fraction model below.



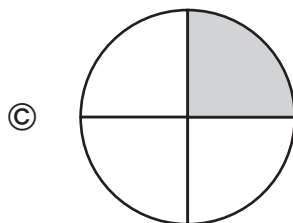
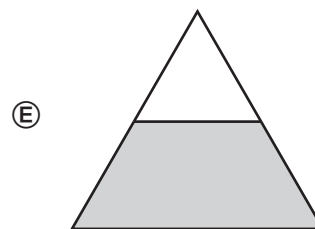
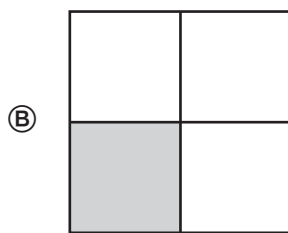
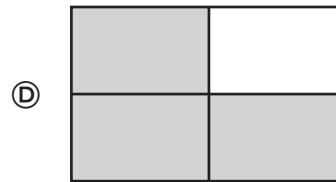
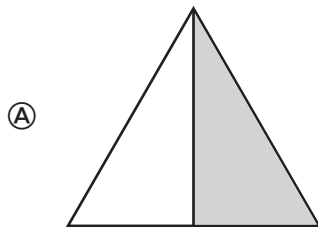
Which fraction of the whole rectangle does the shaded part represent?

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

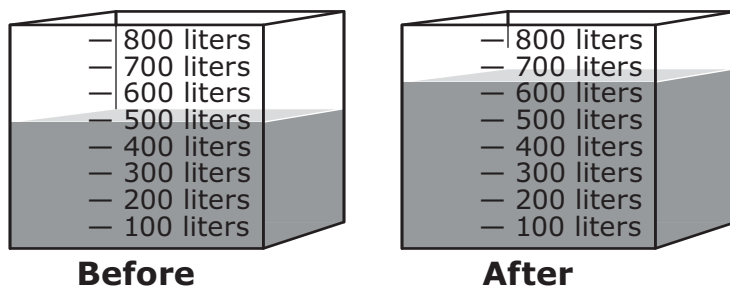
Fill in the missing products from the table.

×	6	7	8	9
5	30		40	
6		42		54
7	42		56	

Select all the models that show $\frac{1}{4}$ shaded.



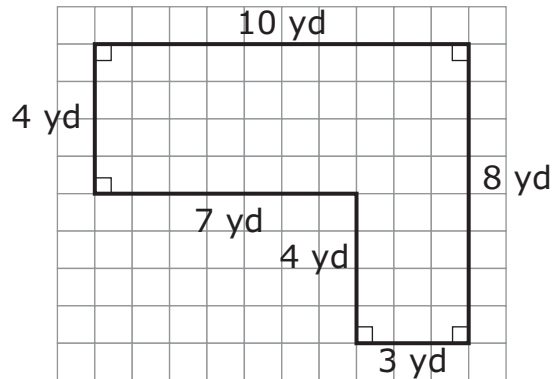
Ethan noticed that the water level on his fish tank was low. He added some water. The diagrams show how much water was in the fish tank before he added water and after he added water.



Which is the best estimate of how much water Ethan added to the tank?

- Ⓐ 800 liters
- Ⓑ 725 liters
- Ⓒ 150 liters
- Ⓓ 100 liters

The figure below shows the side lengths of the patio in Mandi's backyard.



What is the total area of the patio?

- Ⓐ 36 square yards
- Ⓑ 40 square yards
- Ⓒ 52 square yards
- Ⓓ 80 square yards

Hannah and Jane each try to find the value of the expression below.

$$4 \times 5 \times 2$$

Part A

Write another expression you could use to solve $4 \times 5 \times 2$.

Answer _____

Part B

What is the product of $4 \times 5 \times 2$?

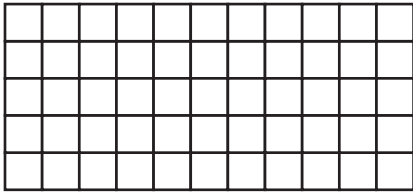
Answer _____

Which fraction is equivalent to 5?

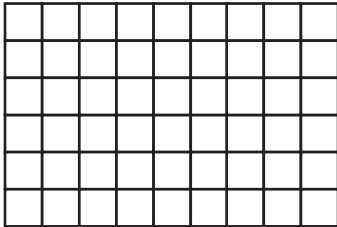
- Ⓐ $\frac{5}{1}$
- Ⓑ $\frac{1}{5}$
- Ⓒ $\frac{1}{50}$
- Ⓓ $\frac{50}{1}$

Each figure represents a tiled floor in one of the bedrooms of Ms. Austen's house. Which figure represents a bedroom floor that has an area of 54 square feet? Each tile has an area of 1 square foot.

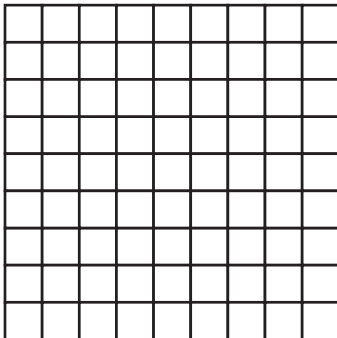
Ⓐ



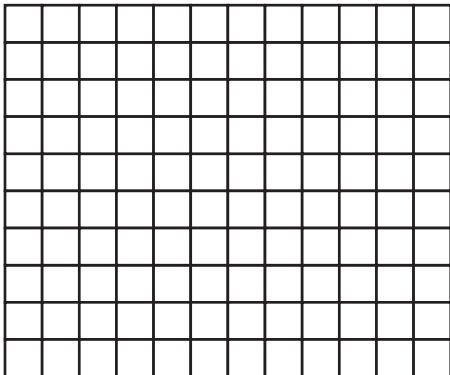
Ⓑ



Ⓒ



Ⓓ



Select all the numbers that round to 260 when rounded to the nearest ten.

- Ⓐ 262
- Ⓑ 253
- Ⓒ 259
- Ⓓ 272
- Ⓔ 268
- Ⓕ 256

Cassandra orders 5 sandwich trays for a party. There are 6 different kinds of sandwiches. Each tray has 5 of each kind of sandwich.

Part A

What is the total number of sandwiches Cassandra orders?

Answer _____

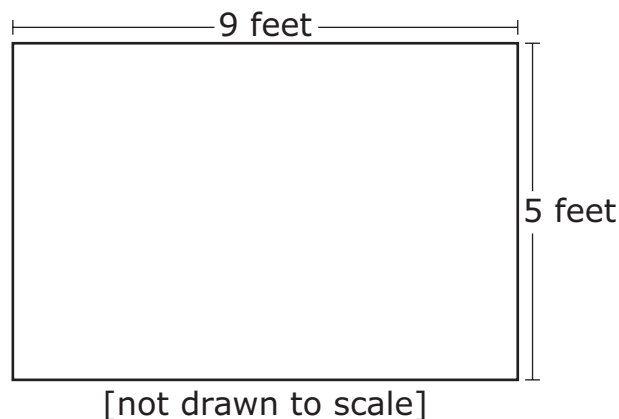
Part B

Each sandwich tray will be shared equally by 10 guests. Cassandra says each guest will get 15 sandwiches. Is Cassandra correct? Explain. How many sandwiches will each guest get?

Select all the products that have a value of 360.

- Ⓐ 9×40
- Ⓑ 8×30
- Ⓒ 50×7
- Ⓓ 60×6
- Ⓔ 4×90
- Ⓕ 20×8

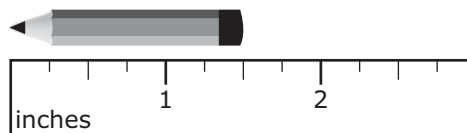
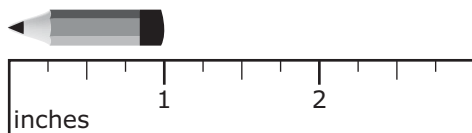
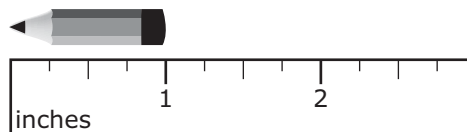
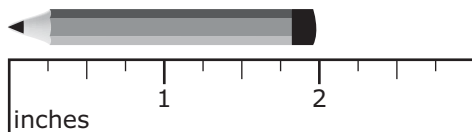
Cara's bathroom floor is in the shape of a rectangle. Cara drew the figure below to show the length and width of her bathroom floor.



Cara wants to cover her entire bathroom floor with 1-square foot tiles with no gaps. How many tiles does she need?

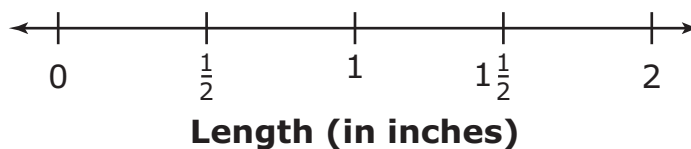
- Ⓐ 14
- Ⓑ 27
- Ⓒ 40
- Ⓓ 45

Mike used a ruler to measure the lengths of four pencils.

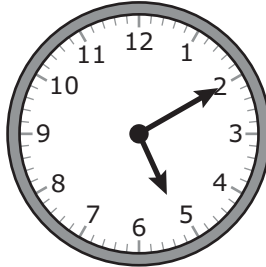


Record the measurements on the line plot.

Pencils



Pete's family is going to see a movie. The clock below shows the time when Pete walks into the theater.



Part A

The movie starts 14 minutes after the time shown on the clock above. At what time does the movie start?

Answer _____

Part B

The movie ends 1 hour 45 minutes after the time shown on the clock above. At what time does the movie end?

Answer _____

Part C

After the movie, Pete's family goes home. Pete plays in his room for an hour and then goes to bed at 8:30. What time did Pete's family get home?

Answer _____

30

Deshi has 427 marbles, and Elaheh has 394 marbles. Deshi gives away 125 marbles to another friend. How many marbles do Deshi and Elaheh have altogether now?

Answer _____

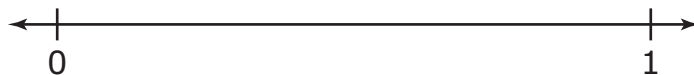
31

Write a problem that can be represented by the expression 8×4 .

32

Draw a number line that shows how many fourths are between 0 and 1.

Write $\frac{3}{4}$ where it belongs on your number line.



The table shows the number of riders who can fit in each car of some train rides at an amusement park.

Ride	Number of Riders per Car
Red Comet	8
Twister	4
Megatron	6

Part A

There are 9 cars in each train on the *Red Comet* ride. Write and solve an equation that represents the number of riders that can fit on one train.

Answer _____

Part B

Each train on the *Twister* ride has 8 cars. Draw an array to show the total number of riders on each *Twister* train.

Part C

A train on the *Megatron* ride leaves with 38 riders on it. What is the least number of empty seats there could be?

Answer _____

Go On

Machi scored 3 goals in each of her first 4 hockey games this season. She wants to score a total of 30 goals this season. What is the number of goals she needs to score in the remaining games this season?

- Ⓐ 12
- Ⓑ 18
- Ⓒ 23
- Ⓓ 27

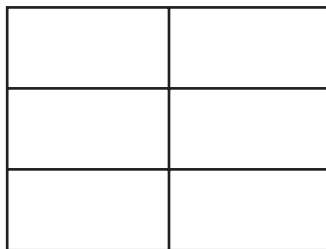
Lisa made a list of some multiples of 7.

0, 7, 14, 21, 28, 35, 42, 49, 56, 63, 70

Select all the statements that correctly describe multiples of 7.

- Ⓐ Seven times a number is always odd.
- Ⓑ Seven times a number is always even.
- Ⓒ Seven times an odd number is always odd.
- Ⓓ Seven times an even number is always odd.
- Ⓔ Seven times an even number is always even.

Jin is making a quilt. The quilt is divided into six equal sections.



Part A

What fraction of the quilt does each section represent?

Each section is _____ of the quilt.

Part B

Help Jin design the quilt so that it is $\frac{2}{6}$ red, $\frac{1}{3}$ yellow, and $\frac{2}{6}$ blue. Write the letter *R*, *Y*, or *B* in each section to show which color it should be. You can use each letter more than once.

Go On

Pam made two square posters. Her second poster is larger than her first poster. She divided each poster into 4 equal sections. She covers each section with colored paper.

blue	red
yellow	red

blue	red
green	purple

[not drawn to scale]

Which statement must be true about the paper Pam uses?

- Ⓐ The same amount of blue paper is used for each poster because blue covers $\frac{1}{4}$ of each poster.
- Ⓑ The same amount of green paper is used as purple paper because each covers $\frac{1}{4}$ of the same poster.
- Ⓒ More red paper is used for the smaller poster than the larger poster because red covers $\frac{2}{4}$ of the small poster and only $\frac{1}{4}$ of the large poster.
- Ⓓ More yellow paper is used than purple paper because $\frac{1}{4}$ of the small poster is greater than $\frac{1}{4}$ of the large poster.

Write numbers in the boxes to complete the number sentence. Use numbers from the list on the right. There is more than one correct answer.

$$\frac{1}{\boxed{}} < \frac{1}{\boxed{}}$$

2
3
4
5
6

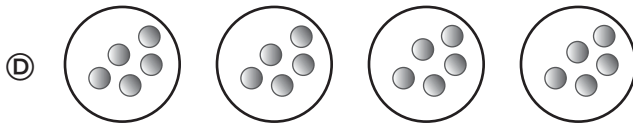
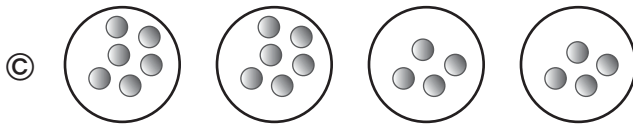
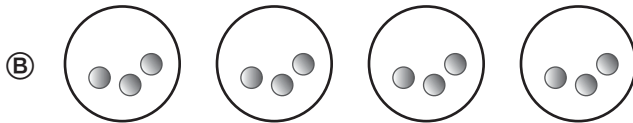
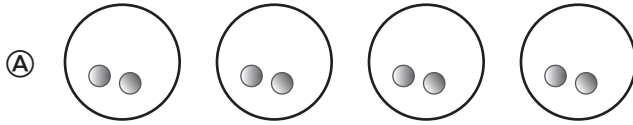
Divide the number line below into equal sections. Then plot a single point to show that the fractions $\frac{1}{3}$ and $\frac{2}{6}$ are equivalent.



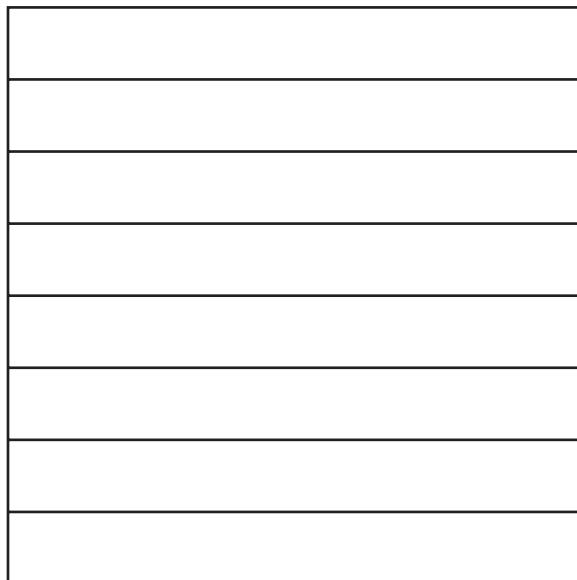
Qi cuts an apple into 8 equal pieces. She eats 3 of the pieces. She saves the other pieces for later. What fraction of the apple does Qi save for later?

- Ⓐ $\frac{5}{8}$
- Ⓑ $\frac{3}{8}$
- Ⓒ $\frac{3}{5}$
- Ⓓ $\frac{1}{3}$

Dante had 20 marbles. He placed an equal number of marbles into each of 4 groups. Which drawing can be used to find the number of marbles that Dante placed in each group?



Ken paints a picture for the library wall. He paints 8 equal rows in the picture.

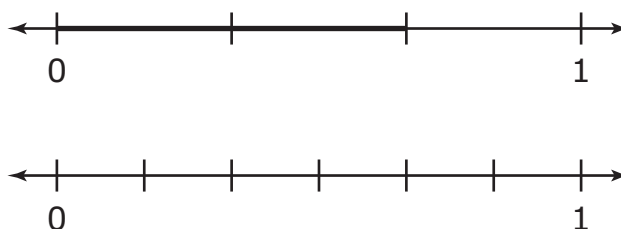


What fraction of the total area of the mural does one row represent?

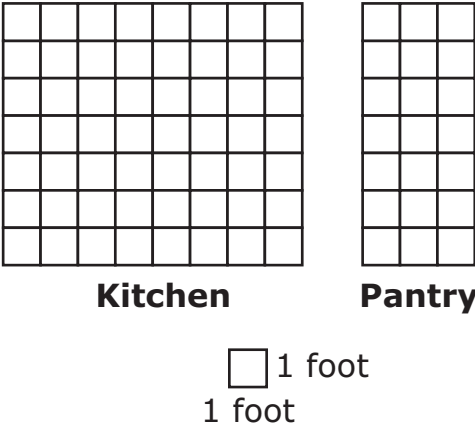
Answer _____

Stan has two models. Each model is divided into equal-sized sections. The first model has been shaded to represent a fraction.

Shade sections on the second model to show a fraction equivalent to the one in the first model.



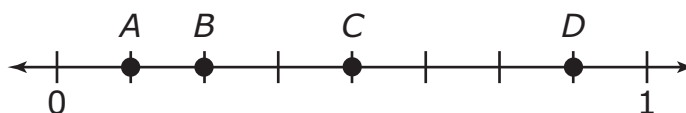
Jake covers the floor in his kitchen and pantry with square tiles as shown on the diagram below.



What is the total area that Jake covers with tiles?

- Ⓐ 21 square feet
- Ⓑ 35 square feet
- Ⓒ 56 square feet
- Ⓓ 77 square feet

Look at the fractions represented by the points on this number line.



Which point on the number line represents a fraction equivalent to $\frac{1}{4}$?

- Ⓐ Point A
- Ⓑ Point B
- Ⓒ Point C
- Ⓓ Point D

A multiplication problem is shown.

$$7 \times 8 = \square$$

What is the value of the unknown number?

Answer _____

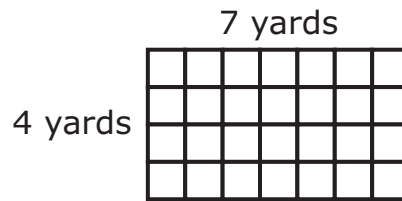
Rudi has a vegetable garden. He planted 36 vegetable plants in rows. He put the same number of plants in each row. Select the sentence Rudi could use to tell how he planted the vegetables.

- Ⓐ I planted 3 rows with 9 plants in each row.
- Ⓑ I planted 4 rows with 9 plants in each row.
- Ⓒ I planted 5 rows with 7 plants in each row.
- Ⓓ I planted 6 rows with 7 plants in each row.

Write 3, 5, and 6 in the boxes to create a different expression that is equal to $(3 \times 6) \times 5$.

$$(3 \times 6) \times 5 = \left(\square \times \square \right) \times \square$$

Betty's living room floor is in the shape of a rectangle. The rectangle below shows the length and width of the room.



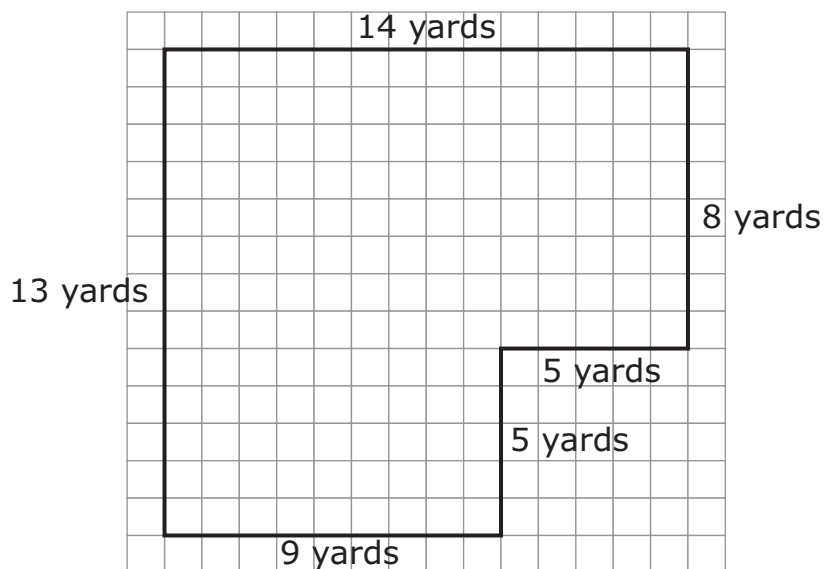
Write an expression you could use to find the area of Betty's living room floor in square yards.

Answer _____

Select the expression that is equal to 547.

- Ⓐ $293 + 354$
- Ⓑ $849 - 302$
- Ⓒ $159 + 412$
- Ⓓ $602 - 145$

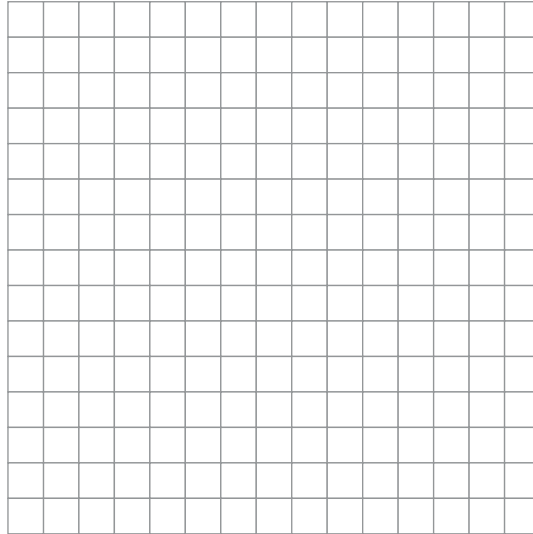
Tommy drew a model to show the area of his house.



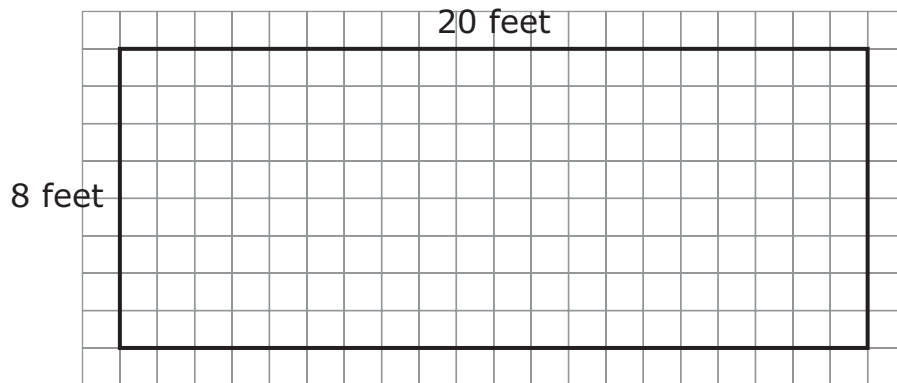
What is the area of Tommy's house in square yards?

- Ⓐ 229 square yards
- Ⓑ 182 square yards
- Ⓒ 157 square yards
- Ⓓ 112 square yards

Tia fenced in a play area for her dog, Rosco. The play area has a perimeter of 28 feet. Draw a rectangle that could represent Rosco's play area.



The length and width of a rectangular swimming pool are shown below.



What is the area of the pool in square feet?

- Ⓐ 28 square feet
- Ⓑ 56 square feet
- Ⓒ 160 square feet
- Ⓓ 180 square feet

Jenn and Benji were each asked to write an equation.

Part A

Jenn wrote this equation.

$$6 \times \square = 48$$

What is the value of the unknown?

Answer _____

Part B

Benji wrote this equation.

$$49 \div \square = 7$$

What is the value of the unknown?

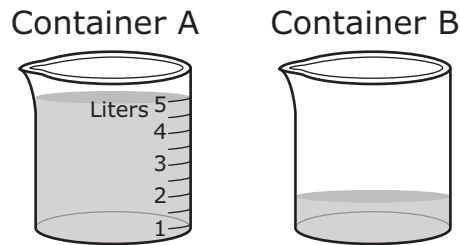
Answer _____

Select all the expressions that could be used to find 7×8 .

- Ⓐ $7 \times (5 + 3)$
- Ⓑ $7 + (2 \times 4)$
- Ⓒ $(4 \times 2) \times 7$
- Ⓓ $(4 \times 2) + (3 \times 4)$
- Ⓔ $4 \times (7 \times 2)$

Go On

Mr. Gino measures two amounts of water for a science experiment. He uses two containers that are exactly the same size.



Part A

About how much water is in Container B?

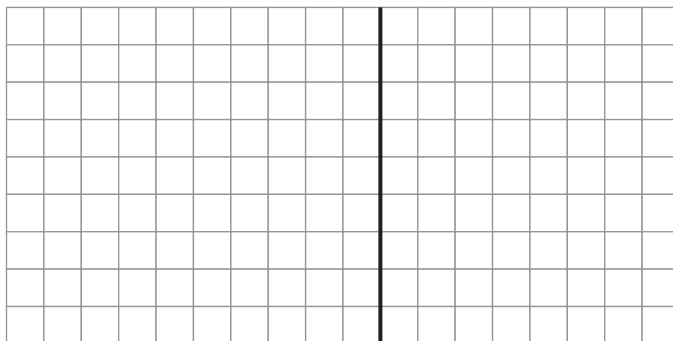
Answer _____ liters

Part B

About how much more water is in Container A than in Container B?

Container A has about _____ more liters of water than Container B.

Kelli is making a poster. She divides the poster into two sections.



☐ 1 unit
1 unit

Select all the expressions you could use to find the area of the poster.

- Ⓐ $(10 \times 9) + (8 \times 9)$
- Ⓑ $(10 + 8) + 9$
- Ⓒ $18 + 9$
- Ⓓ $9 \times (10 \times 2)$
- Ⓔ $9 \times (10 + 8)$

Write the multiples of 4 in the correct boxes to complete the table.

×	3	4	5	6
4				
5	15		25	30
6	18		30	36
7	21		35	42

Go On

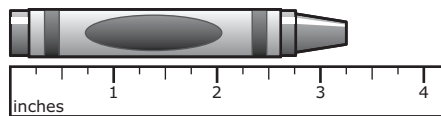
Write a number in each box to show two multiplication facts you could use to solve $24 \div 3 = \square$. Use numbers from the list on the right. You can use each number more than once.

$$\square \times 3 = \square$$

$$3 \times \square = \square$$

3
6
8
12
24

A crayon is shown.

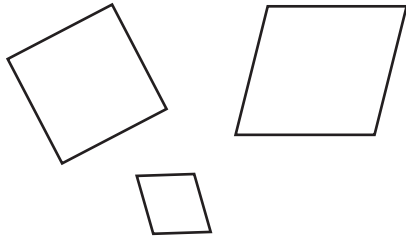


What is the length of the crayon to the nearest quarter of an inch?

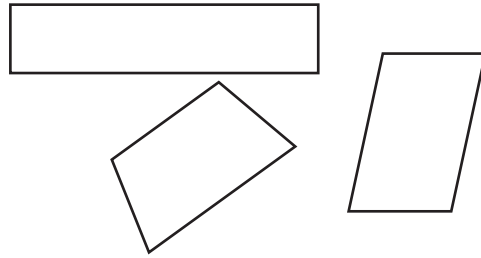
Answer _____ inches

Becca sorted a set of shapes into two groups.

Group 1



Group 2



Explain a rule that Becca could have used to sort the shapes into Group 1 and Group 2.

Write a word problem that can be represented using the expression $42 \div 6$.

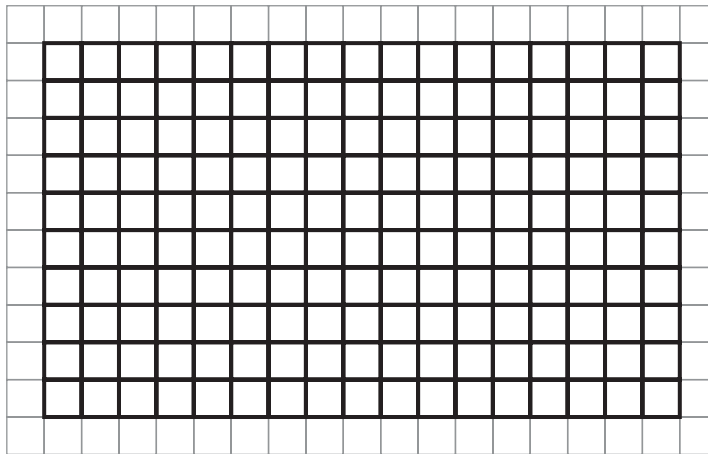
Jeremy has a sheet of paper with a length of 17 inches and a width of 10 inches. He wants to find the area of the sheet of paper.

Part A

Jeremy says he can find the area using this expression:

$$(10 \times 10) + (7 \times 10).$$

Draw a line in the model below so that the model represents Jeremy's expression.



Part B

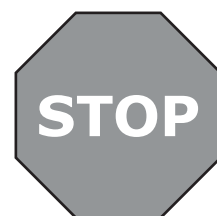
Use Jeremy's expression and the model in Part A to find the area of the sheet of paper.

$$(10 \times 10) + (7 \times 10) = \quad ?$$

$$\boxed{} + \boxed{} = \boxed{} \text{ square inches}$$

Write the value of each number rounded to the nearest 10 and nearest 100.

	Rounded to the Nearest 10	Rounded to the Nearest 100
348		
486		
514		



Name _____

Teacher _____ Grade _____

School _____ City _____

Assessment 1

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