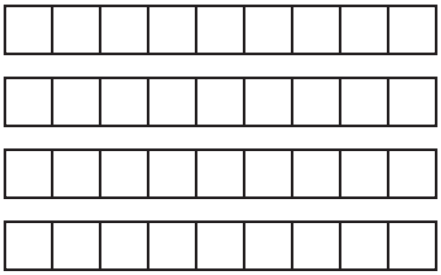
2014
State Test

134030013_1

Which expression is represented by the model shown below?



A 4×9

B $9 \div 4$

C 36×4

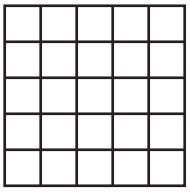
D $9 \div 36$

134030081_3

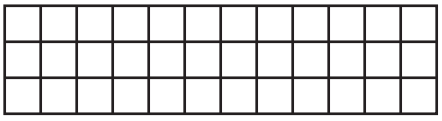
A playground has an area of 30 square meters. Which shape could represent the playground?

KEY
☐ = 1 square meter

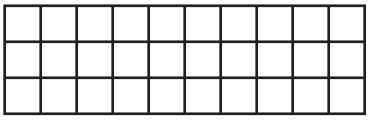
A



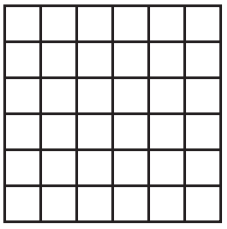
B



C



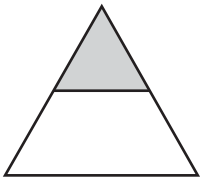
D



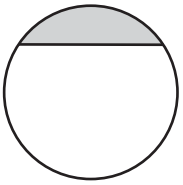
134030001_4

Which figure is $\frac{1}{2}$ shaded?

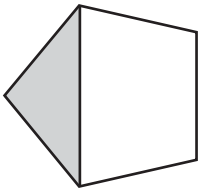
A



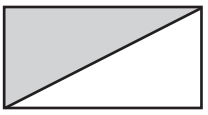
B



C



D



134030036_1

Kai separated 36 index cards into 4 equal stacks. Which number sentence could be used to determine the number of cards in each stack?

A $4 \times \underline{\quad ? \quad} = 36$

B $4 \div \underline{\quad ? \quad} = 36$

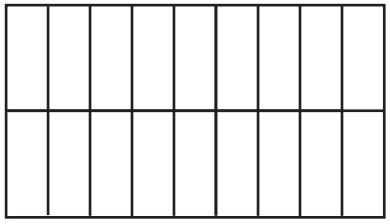
C $\underline{\quad ? \quad} + 4 = 36$

D $\underline{\quad ? \quad} \div 4 = 36$

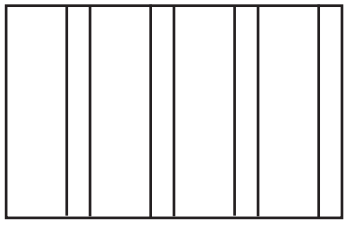
134030302_4

Bruce made a game board by painting stripes on a rectangular piece of cardboard. Each stripe covered $\frac{1}{8}$ of the rectangle. Which figure could represent the game board Bruce made?

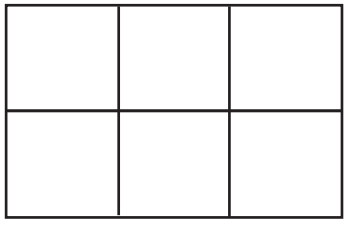
A



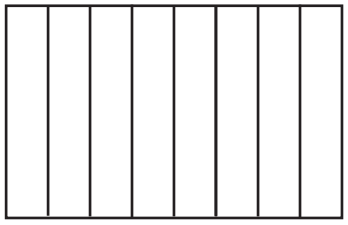
B



C



D



124030501_1

Hilda and Mallory each have the same number of seashells.

- Hilda sorted her seashells into 3 groups with 8 seashells in each group.
- Mallory sorted her seashells into 6 equal groups.

How many seashells were in each of the groups Mallory made?

A 4

B 9

C 18

D 24

134030060_2

Which fraction is equivalent to $\frac{2}{8}$?

A $\frac{1}{8}$

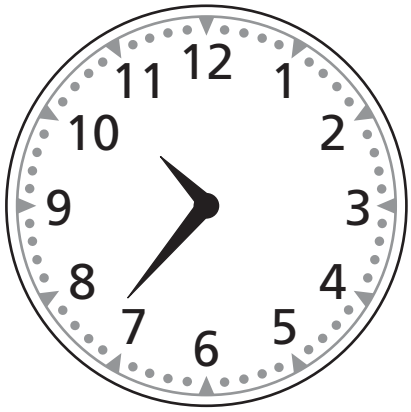
B $\frac{1}{4}$

C $\frac{2}{4}$

D $\frac{4}{8}$

134030063_3

What time is shown on the clock below?



A 7:10

B 10:07

C 10:37

D 11:37

134030028_2

Mr. Jacobs had 56 books in his office. He put an equal number of books on each of 7 shelves. The equation below can be used to determine the number of books he put on each shelf.

$$56 \div 7 = \underline{\quad ? \quad}$$

How many books, in all, did Mr. Jacobs put on each shelf?

A 7

B 8

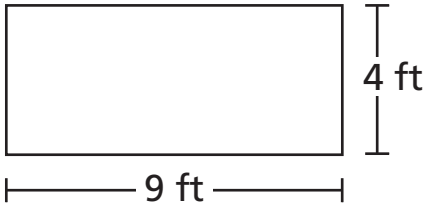
C 49

D 63

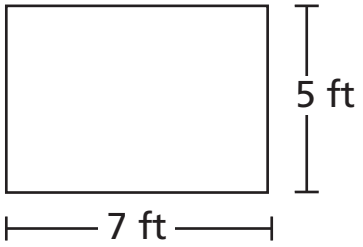
134030087_4

Mandy's garden is shaped like a rectangle. It has a total area of 40 square feet. Which figure could represent Mandy's garden?

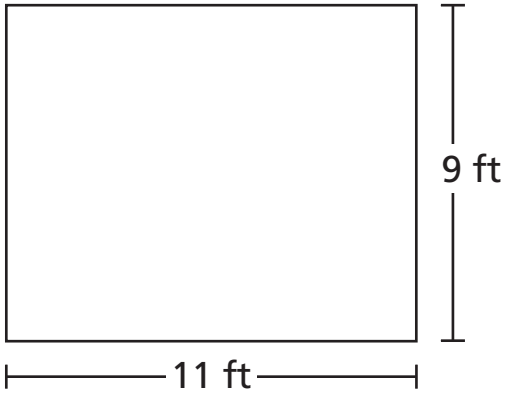
A



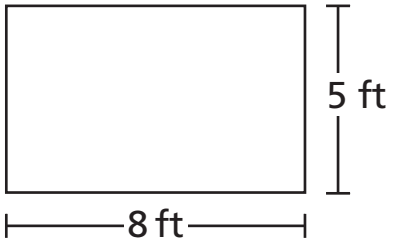
B



C

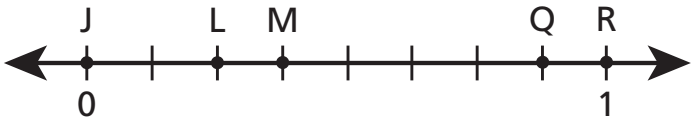


D



134030009_2

The number line below shows five points, labeled J, L, M, Q, and R.



Which two points have a distance of $\frac{3}{8}$ between them?

A J and L

B J and M

C L and Q

D M and R

134030041_1

Jerome had 23 farm animal stickers and 17 sea animal stickers. Jerome used all of the stickers to fill an 8-page scrapbook. He put the same number of stickers on each page. How many stickers did he put on each page?

A 5

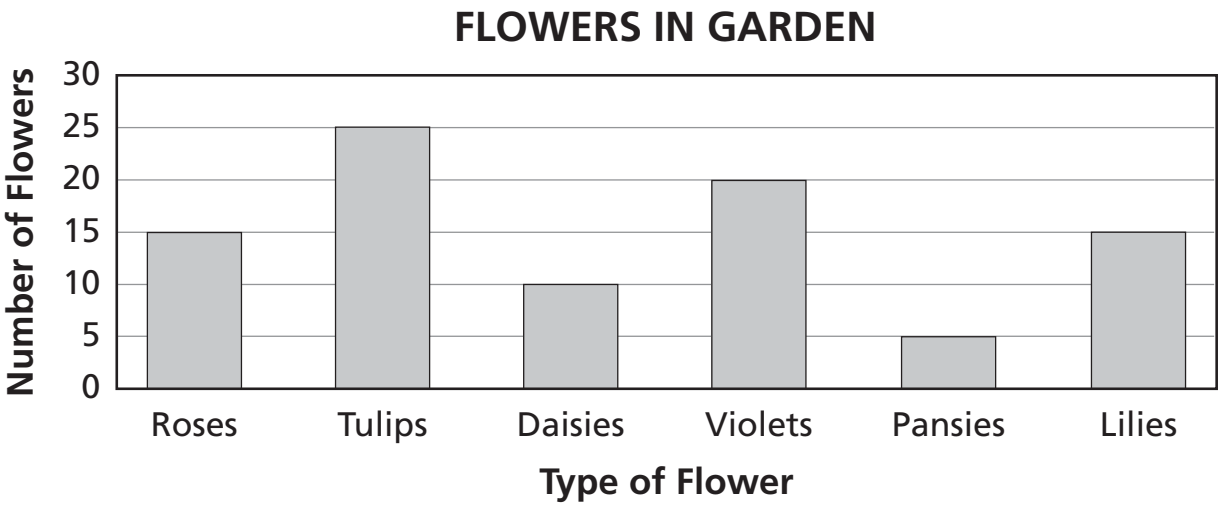
B 6

C 32

D 40

134030074_3

Ms. Jones has six types of flowers in her garden. The bar graph below shows the number of each type of flower.



Based on the bar graph, which sentence is true?

A Ms. Jones has 25 more tulips than pansies.

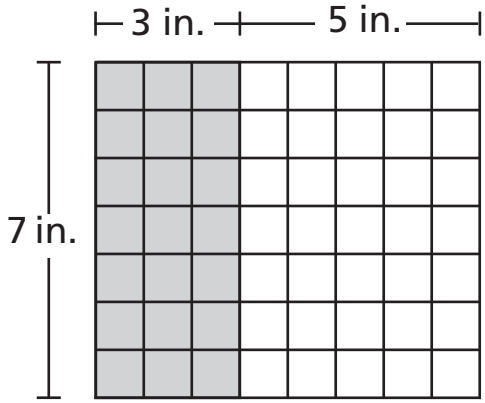
B Ms. Jones has 10 more lilies than daisies.

C Ms. Jones has 5 more violets than lilies.

D Ms. Jones has 5 more roses than pansies.

134030088_1

Ryan used square tiles to make the design shown below. He used gray tiles and white tiles.



Which expression could be used to find the total area, in square inches, of Ryan's design?

A $(7 \times 3) + (7 \times 5)$

B $(7 + 3) \times (7 + 5)$

C $3 \times 5 \times 7$

D $3 + 5 + 7$

134030407_2

If each side of a square has a length of 1 unit, which statement about the square is true?

A The square is a unit square that can be used to measure mass.

B The square is a unit square that can be used to measure area.

C The square is a unit square that can be used to measure volume.

D The square is a unit square that can be used to measure weight.

134030035_1

Which number sentence can be used to determine the value of $72 \div 9$?

A $9 \times \_\_?\_\_ = 72$

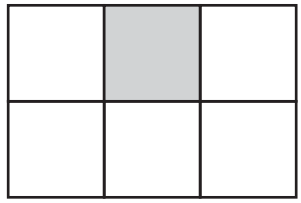
B $9 + \_\_?\_\_ = 72$

C $9 \times 72 = \_\_?\_\_$

D $9 + 72 = \_\_?\_\_$

134030002_1

Mr. Lopez divided his garden into equal parts for planting, as shown in the diagram below. The shaded part of the diagram shows where he planted carrots.



Which fraction of the garden is planted with carrots?

A $\frac{1}{6}$

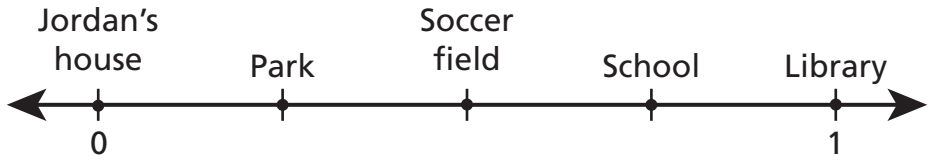
B $\frac{1}{5}$

C $\frac{1}{3}$

D $\frac{1}{2}$

134030006_4

The points on the number line represent the distances of 4 different locations from Jordan's house. The library is one mile from Jordan's house.



What location is $\frac{2}{4}$ mile from Jordan's house?

A the park

B the school

C the library

D the soccer field

134030406_1

Wendy cut a board into 4 pieces of equal sizes to make a table. Which fraction of the whole board does each piece represent?

A $\frac{1}{4}$

B $\frac{1}{1}$

C $\frac{4}{4}$

D $\frac{4}{1}$

134030031_1

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

$$12 \times 2 = (\underline{\quad ? \quad} \times 2) + (2 \times 2)$$

A 10

B 12

C 20

D 24

134030049_1

What is 345 rounded to the nearest 100?

A 300

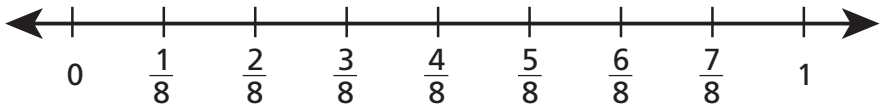
B 340

C 350

D 400

134030057_2

A number line is shown below.



Which pair of fractions is equivalent?

A $\frac{5}{8}$ and $\frac{2}{4}$

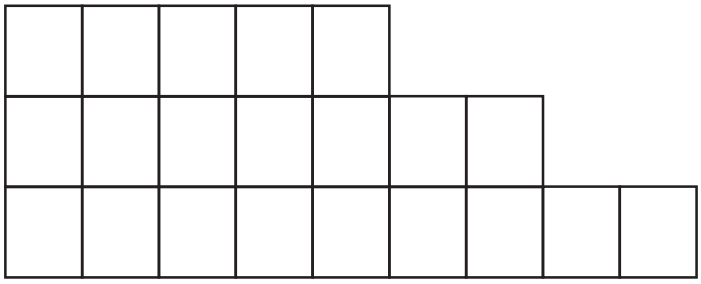
B $\frac{2}{4}$ and $\frac{4}{8}$

C $\frac{3}{8}$ and $\frac{2}{4}$

D $\frac{2}{4}$ and $\frac{2}{8}$

134030045_4

The first row in a pattern of tiles had 5 tiles. Each row after the first had 2 more tiles than the row before it, as shown below.



Which statement is true about the number of tiles in any row?

A It is divisible by 10.

B It is an even number.

C It is a multiple of 3.

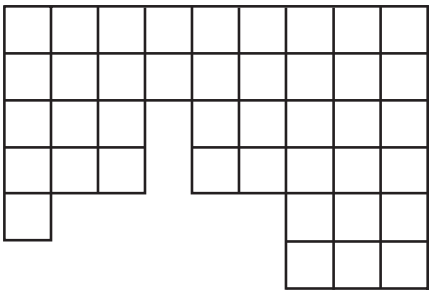
D It is an odd number.

134030083_2

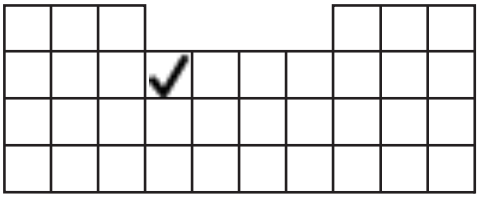
Which figure below has an area of 36 square units?

KEY
= 1 square unit

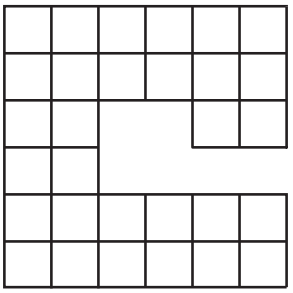
A



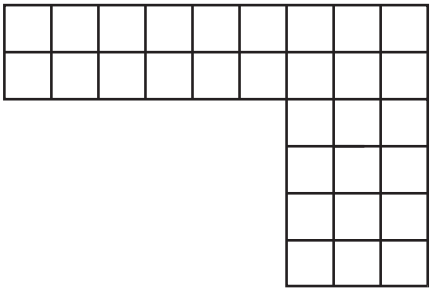
B



C



D



134030103

Jimmy's teacher asked him to describe a situation in which the number of objects could be represented by $24 \div 4$.

Jimmy started his description, shown below. Complete the description so that the number of objects can be represented by $24 \div 4$.

A pet store had a total of 24 fish. _____

_____

_____

134030108

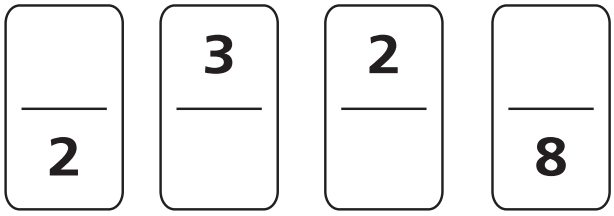
Mr. Tran needs 96 tiles to cover his kitchen floor. He already has 60 tiles. Tiles come in packages of 4. What is the total number of packages he will need to buy to finish covering his kitchen floor?

Show your work.

Answer _____ packages

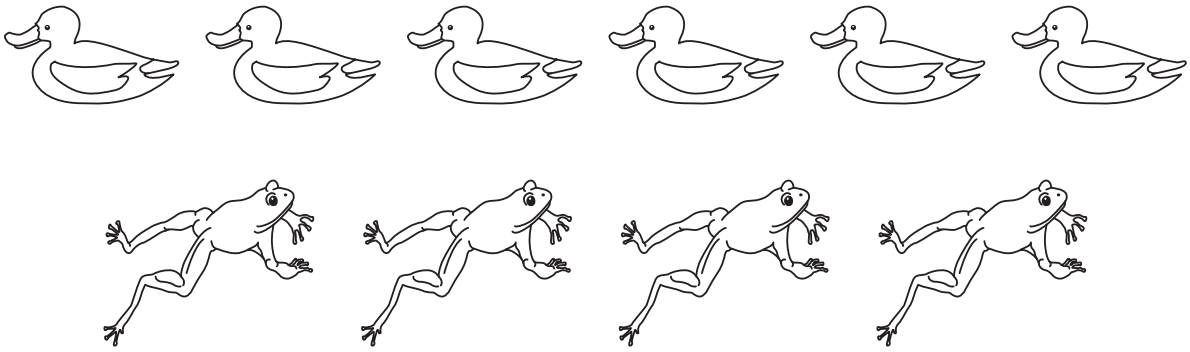
134030207

Four fraction cards are shown below. Complete the fraction on each card so that all four fractions are equivalent.



134030106

In a computer game, players earn points by collecting ducks and frogs. The picture below shows the ducks and frogs Sheila collected the first time she played the game. She earned the same number of points for 6 ducks as she did for 4 frogs.



If Sheila earned 36 points for the ducks, how many points did she earn for each frog?

Show your work.

Answer _____ points

134030505

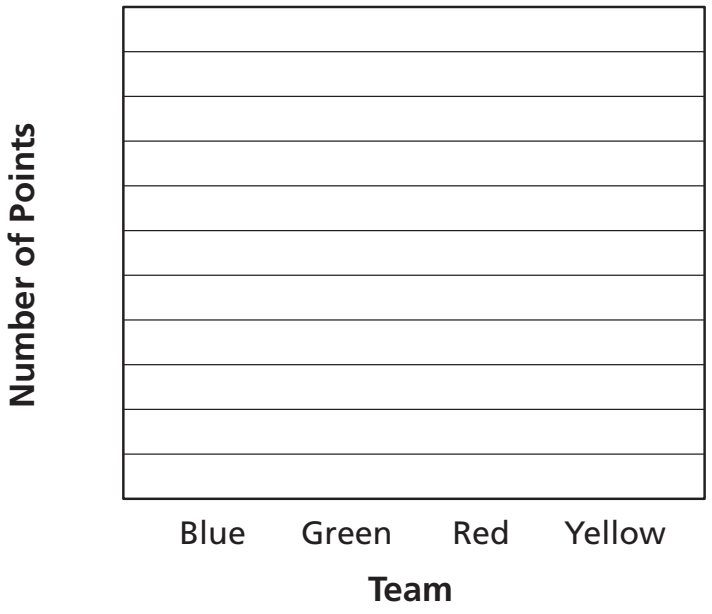
The table below shows the points scored by different teams at the math games.

MATH GAME SCORES

Team	Number of Points
Blue	40
Green	25
Red	35
Yellow	20

Complete the bar graph to represent the data. Remember to include a numeric scale.

MATH GAME SCORES



134030203

There were 30 students in a school chorus. The music teacher arranged the chorus into 6 equal groups. How many students were in each group?

Show your work.

Answer _____ students

Three more students joined each of the 6 groups. How many students were in the chorus then?

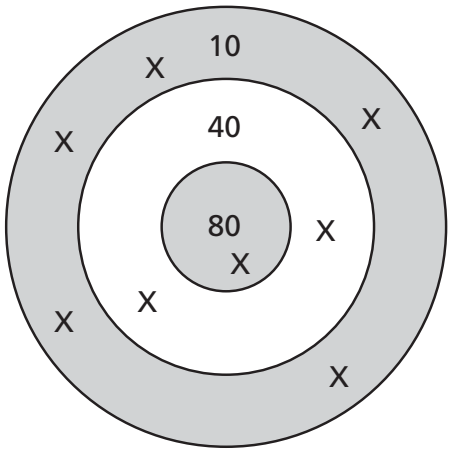
Show your work.

Answer _____ students

124030567

Charlotte played a computer game that uses a target like the one shown. Each ring of the target is marked with the number of points she earns if her dart lands in that ring.

Each X on the rings shows where one of Charlotte's darts landed the first time she played the game.



How many points did Charlotte earn her first time playing the game?

Show your work.

Answer _____ points

Charlotte played the game a second time. She threw three darts and scored 160 points. On the target below, show with an X where Charlotte's darts could have landed in order to score exactly 160 points.