

Name _____

1. What is 52 rounded to the nearest ten?

- A) 60 B) 55 C) 50

2. Round 6,579 to the nearest ten.

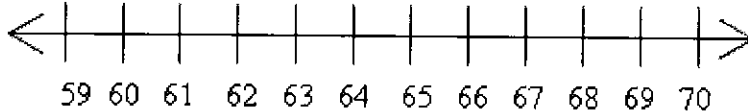
- A) 6,580 B) 6,600 C) 7,000 D) 7,080

3. The Davis family traveled 648 miles on their vacation this year. To the nearest hundred, about how many miles did they travel?

- A) 600 B) 640 C) 650 D) 700

4. There were 10,283 people at a football game. Rounded to the nearest hundred, how many people were at the game?

- A) 10,280 B) 10,290 C) 10,300 D) 11,000



5. Which multiple of ten is the number 63 closest to?

- A) 60 B) 64 C) 70

6. Find the difference for $700 - 341$.

7. It is 71 miles from Boston, MA, to Concord, NH. It is 138 miles from Concord, NH, to Colebrook, NH. About how many miles is this altogether?

- A) 100 B) 200 C) 300 D) 400

8. According to the 1990 census, 36,006 people live in Concord and 3,057 people live in Wakefield. How many more people live in Concord than in Wakefield?

- A) 32,949 B) 32,951 C) 33,051 D) 39,063

9. Find the sum of 678 and 397.

10. A large park has 58 trees and 245 flowers.

Part A

What is the total number of trees and flowers in the park? Show your work.

Part B

Round the number of trees to the nearest 10.

Part C

Round the number of flowers to the nearest 100.

11. Use $>$, $<$, or $=$ to compare the fractions.

$$\frac{1}{2} \quad \frac{1}{8}$$

$$\frac{1}{6} \quad \frac{1}{3}$$

$$\frac{1}{5} \quad \frac{1}{9}$$

12. Use $>$, $<$, or $=$ to compare the fractions.

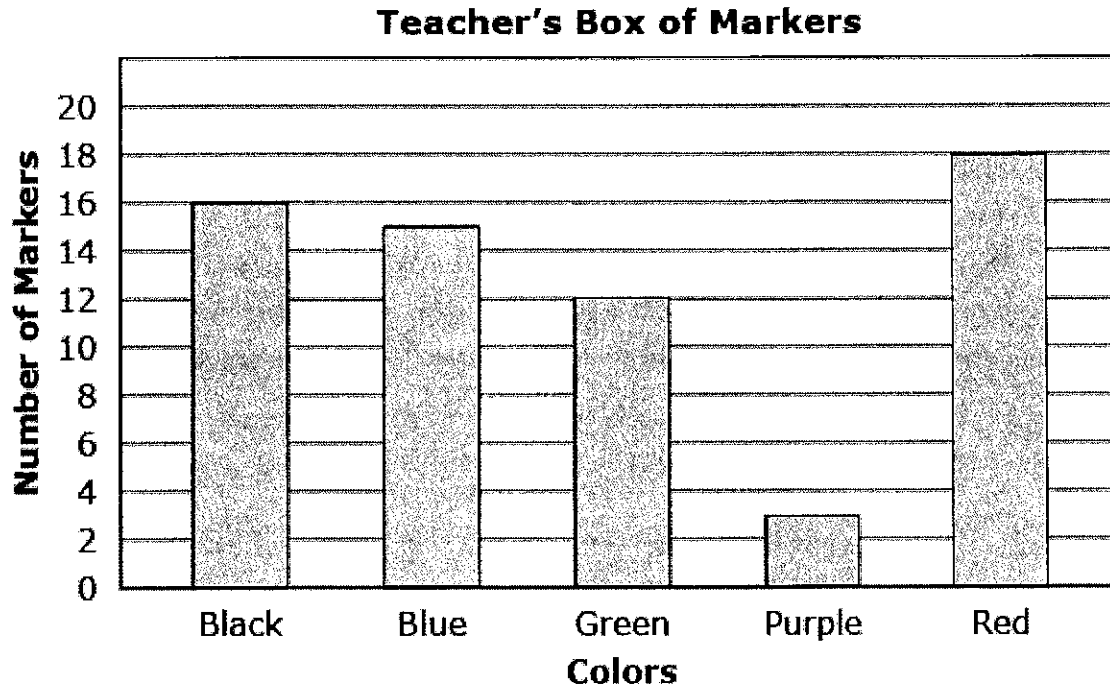
$$\frac{2}{3} \quad \frac{2}{4}$$

$$\frac{4}{8} \quad \frac{4}{6}$$

$$\frac{3}{6} \quad \frac{3}{3}$$

13. John bought 6 boxes of juice. He drank $\frac{1}{3}$ of the boxes of juice. How many boxes of juice did he drink? **Show your work. Write to explain what you did to find your answer.**

14. A teacher found a box of markers in the classroom closet. The bar graph shows how many markers of each color were in the box.



Part A

How many total markers were in the box? Show your work or explain your answer.

Part B

The students sit in groups. There are 3 students in each of the 8 groups. The teacher gave each group the same number of markers to check if the markers still worked. Write an expression, using division, which can be used to determine how many markers each group will get. Show your work or explain your answer.

Part C

The table shows the number of markers that still work.

Working Markers

Color	Number
Black	8
Blue	11
Green	7
Purple	2
Red	12

Complete the pictograph to show the number of markers that still work.

Working Markers

Color	Number
Black	
Blue	
Green	
Purple	
Red	

KEY

Each  represents 2 markers.

15. 5,328

What is the place value of the underlined number?

What is the value of the underlined number?

16. Find the sum of 925 and 581.



Which expression represents the shaded part of the figure?

A) $\frac{1}{8} + \frac{1}{8}$

B) $\frac{2}{8} + \frac{2}{8}$

C) $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

D) $\frac{2}{8} + \frac{2}{8} + \frac{2}{8} + \frac{2}{8} + \frac{2}{8} + \frac{2}{8} + \frac{2}{8} + \frac{2}{8}$

18. What fraction represents that 9 out of the 18 students bought a school lunch?

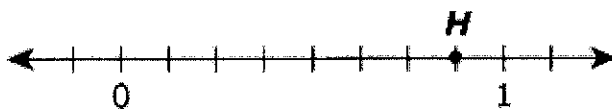
A) $\frac{1}{4}$

B) $\frac{1}{3}$

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

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

19. The number line shown is divided into equal parts.



Which number is represented by point *H*?

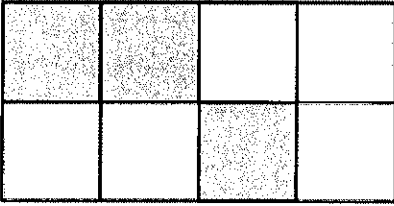
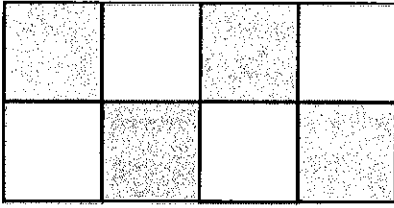
A) $\frac{6}{7}$

B) $\frac{7}{8}$

C) $\frac{8}{9}$

D) $\frac{9}{10}$

20. Trevor and Helu are playing a game using the two game boards shown.



Which number sentence correctly compares the parts of the game boards that are shaded gray?

- A) $\frac{2}{4} < \frac{3}{4}$
 B) $\frac{3}{4} > \frac{4}{4}$
 C) $\frac{4}{8} < \frac{3}{8}$
 D) $\frac{3}{8} < \frac{4}{8}$

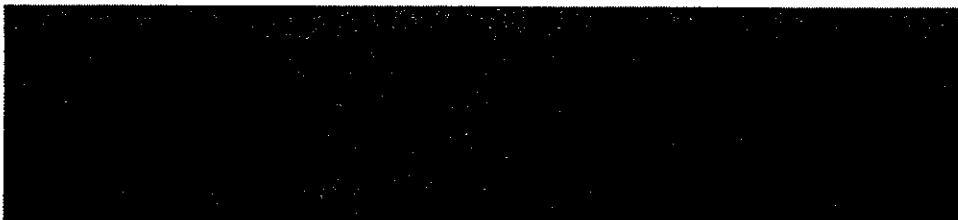
21. Find the sum of 589 and 376.

22. Solve $987+244$.

23. Find the length of the missing sides.

20 cm

7 cm



24. Use the shape above to answer the following questions.

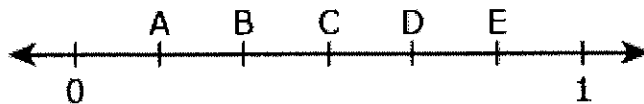
Part A

What is the area of the rectangle? **Show your work.**

Part B

What is the perimeter of the rectangle? **Show your work.**

25. A teacher draws a number line on the board from 0 to 1 and divides the number line into equal sections. Some of the sections are labeled with a letter.



Part A

How many equal sections are there between 0 and 1? Write the fraction that represents the location of A on the number line.

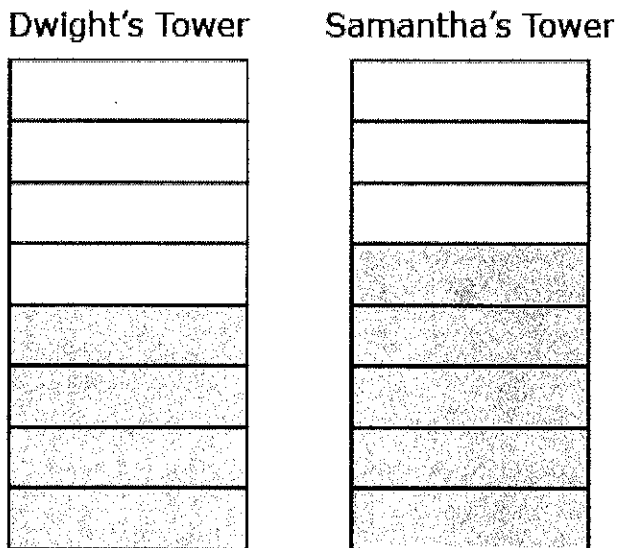
Part B

Using 0 as the starting point, write two fractions that could represent the location of C on the number line. Explain your work.

Part C

Using the number line, what is another way to write the number 1?

26. Dwight and Samantha are building brick towers as shown. The shaded parts show the number of bricks Dwight and Samantha each painted.



Part A

Write a fraction to show the part of the tower Dwight has painted.

Write a fraction to show the part of the tower Samantha has painted.

Compare the two fractions using the symbol $>$, $=$, or $<$.

Part B

Each brick weighs between 4 and 6 kilograms. Estimate the total weight of all the bricks Dwight and Samantha used. **Show your work and explain your answer.**

27. Sally goes fishing with Joan. Sally catches 6 trout. Joan catches twice as many trout as Sally. How many trout did Joan catch? **Show your work and add a word after your answer.**

28. Kevin divided his toys up into 2 groups, action figures and toy trucks. He has 8 of each. How many toys does Martin have in all? **Show your work and add a word after your answer.**

29. Find the product. $50 \times 7 = n$ **Write to explain how you got your answer.**

30. Lin asked some of her friends what season of the year they were born. The table shows her data.

Lin's Data

Season	Number of Friends
Spring	4
Summer	2
Autumn	1
Winter	5

Part A

Make a picture graph to display the data. Be sure to have a title and key for your graph.

Part B

What fraction of Lin's friends were born in autumn? **Explain how you got your answer.**

Part C

What fraction of Lin's friends were not born in autumn? **Explain how you got your answer.**

Part D

Compare the fraction of Lin's friends that were born in autumn to the fraction of Lin's friends that were born in the spring. Which fraction is greater?

31. If it takes Mari 20 minutes to walk from home to school, what is the latest time she can leave to get to school by 8:10 A.M.?

- A) 7:00 A.M. B) 7:10 A.M.
C) 7:50 A.M. D) 8:00 A.M.

32. Kelly surveyed 10 of her friends. She asked them what their favorite pet was. Two people said rabbits. Three people said cats. Five people said dogs. Kelly is going to make a bar graph to show her results. What interval would **BEST** display Kelly's results?

- A) 1 B) 5 C) 10 D) 1523.

33. The weight of a feather would **BEST** be expressed in

- A) milliliters.
 B) milligrams.
 C) milliounces.
 D) millimeters.

34. Amber started reading at 3:45 p.m. She read for 24 minutes. Then she took a 10 minute break. After her break, she read for 18 more minutes. What time did she finish reading?

- A) 4:27 p.m. B) 4:37 p.m.
 C) 4:42 p.m. D) 4:52 p.m.

35. Find the quotients. $35 \div 7 =$ $0 \div 5 =$ $81 \div 9 =$ $72 \div 9 =$

36. Write the fact family for this group of numbers: 4,7,28

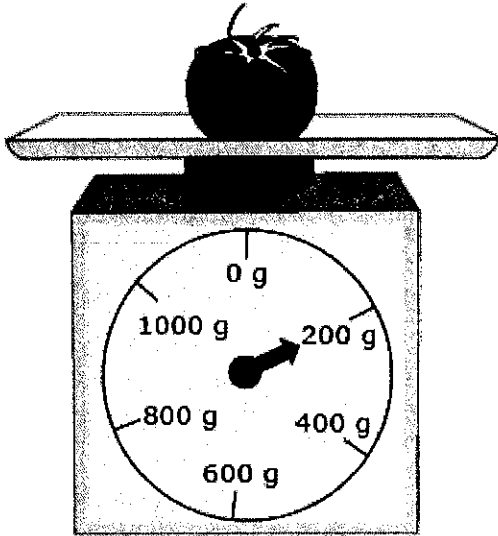
37. Find the unknown number: $4 \times n = 36$ $40 \times n =$
 $n =$ $n =$

38. Find the quotient.

$240 \div 6$

39. **Two step:** Mrs. Rios bought 6 packages of pencils. Each package had 6 pencils. How many pencils did she buy? She gave 18 of the pencils to her students. How many of the pencils did she have left? **Show your work and write a word after your answers.**

40. Tammy placed 1 tomato on a scale.



Which estimate is closest to the weight of 2 tomatoes?

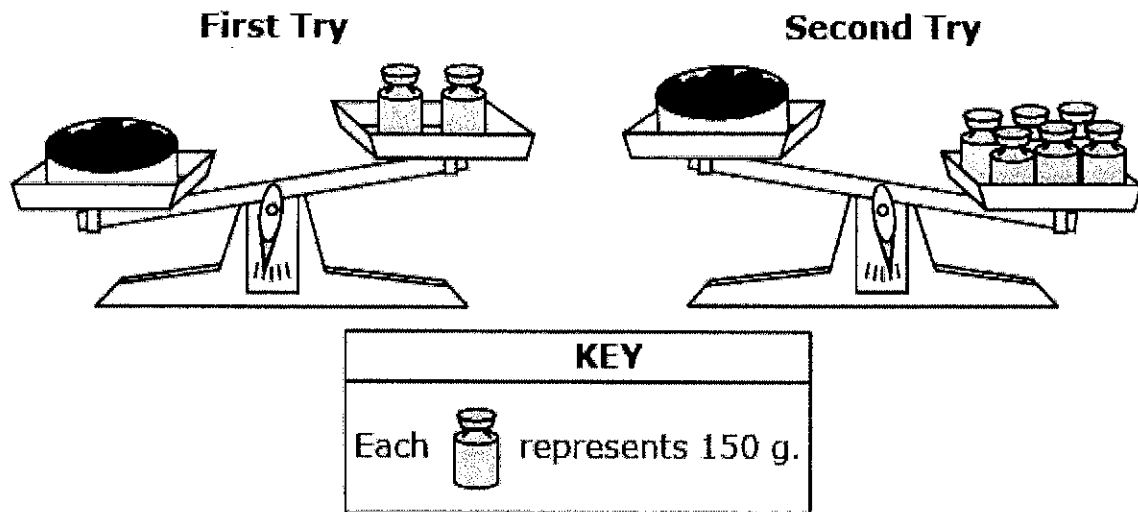
- A) 200 g B) 300 g
C) 400 g D) 600 g

41. Ben is drawing a shape. The shape has four sides. Each angle in the shape is a right angle. Which shape is Ben drawing?

- A) rectangle
B) rhombus
C) hexagon
D) triangle

42. A store owner was buying uniforms for his employees. If each of his 3 stores needed 8 uniforms, how many uniforms would he need to buy?

45. Students use a balance to find the weight of a container filled with rocks.



Part A

How many grams (g) do the students put on the balance the first time? **Show your work or explain your answer.**

Part B

How many grams (g) do the students put on the balance the second time? **Show your work or explain your answer.**

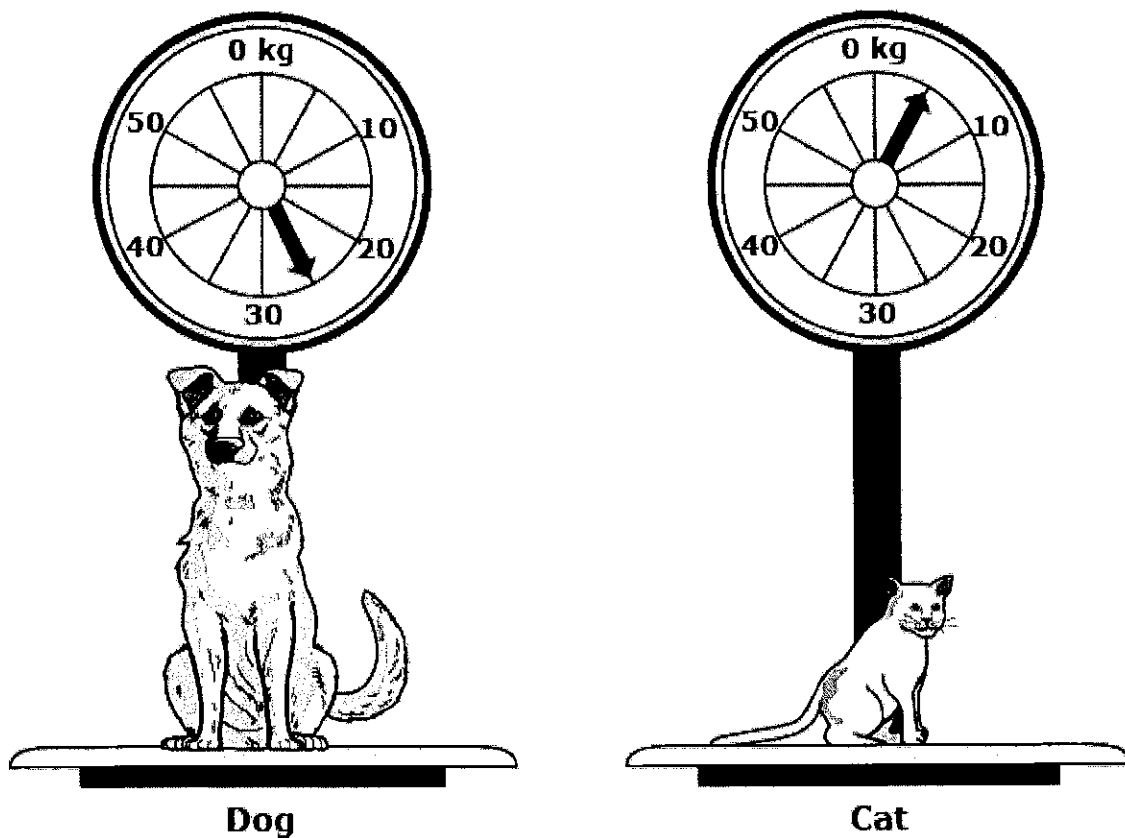
Part C

What is the weight, in grams (g), of the container of rocks? Explain your answer.

46. Which strategy correctly demonstrates 4×38 using mental math?

- A) $4(2 \times 19)$
- B) $2 \times 2 \times 38$
- C) $2 \times 2 \times 2 \times 19$
- D) $(4 \times 30) + (4 \times 8)$

47. Isabelle has 1 dog and 3 cats. Isabelle weighs 1 dog and 1 cat on a metric scale.



Part A

What is the weight of the dog? Give units in your answer.

Part B

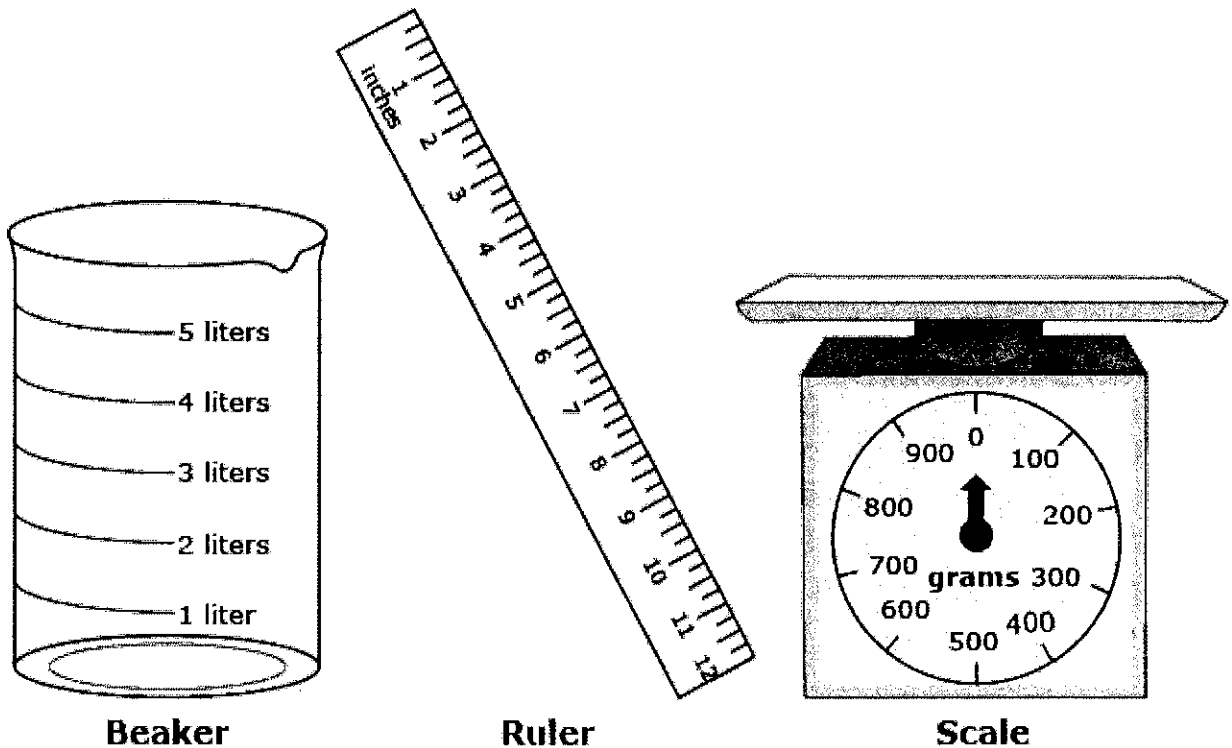
If all of Isabelle's cats weigh the same amount, what is the total weight of her three cats? Give units in your answer.

Part C

Isabelle also has two rabbits. The total weight of the rabbits is 6 kilograms. The smaller rabbit weighs 2 kilograms less than the larger rabbit. What is the weight of each rabbit? Give units in your answer and show your work.

48. **Two step:** Omar bought 4 packages of mushrooms. Each package had 12 mushrooms. How many mushrooms did Omar buy? He used 20 of the mushrooms to make a salad. How many mushrooms did he have left? **Show your work and write a word after your answer.**

49. Use the measuring tools shown to answer the questions.



Beaker

Ruler

Scale

Part A

DeSean is working on a science project. He needs to measure 13 liters of water. Which measuring tool should DeSean use? Describe how he can use the tool to measure 13 liters of water.

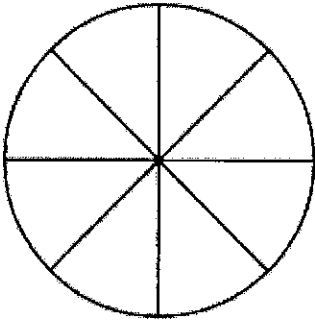
Part B

Chira is working on a different science project. She wants to measure the number of sugar cubes in one can of soda. The label on the soda states that one can of soda has 40 grams of sugar. Chira uses the correct tool and finds out that one can of soda contains 10 sugar cubes. Explain which tool Chira used and how many grams of sugar are in each sugar cube.

50. Cherie has a rock collection. She gave 6 rocks to Tommy for his birthday. She traded 3 rocks to Sally for marbles. Cherie now has 15 rocks left. How many did she start with?

- A) 6 C) 15
B) 9 D) 24

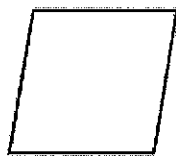
51. The circle shown is divided into equal parts.



What does each unit fraction shown in the circle represent?

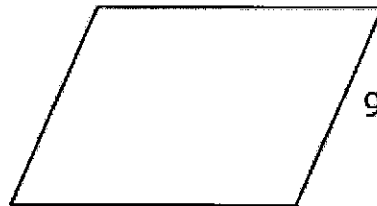
- A) Each unit fraction represents $\frac{1}{8}$ of the area of the circle.
- B) Each unit fraction represents $\frac{1}{4}$ of the area of the circle.
- C) Each unit fraction represents 8 areas of the circle.
- D) Each unit fraction represents 4 areas of the circle.

52. Look at the two shapes shown



6 inches

6 inches



9 inches

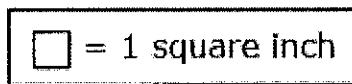
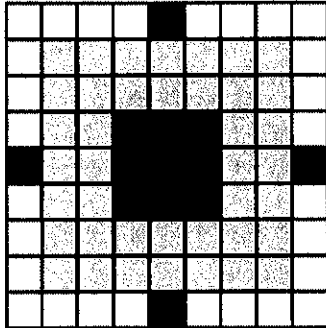
12 inches

Which statement best describes the shapes?

- A) Both shapes are quadrilaterals, and the larger shape is a rhombus.
- B) Both shapes are parallelograms, and the smaller shape is a square.
- C) Both shapes are parallelograms, and the larger shape is a rectangle.
- D) Both shapes are quadrilaterals, and the smaller shape is a rhombus.

53. Mrs. Lambert is sewing a quilt pattern using square-inch pieces of white, black, and gray fabric.

Mrs. Lambert's Quilt



Part A

Write a number sentence, using both addition and multiplication, to find the area covered by black fabric.

Part B

What is the total area covered by black and gray fabric? Show your work or explain your answer.

54. Mr. Smith planted a garden. His garden was 9 yards long and 5 yards wide.

Part A

What is the area of his garden? **Show your work. Write the unit of measurement after your answer. (Remember area is squared.)**

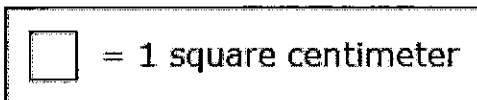
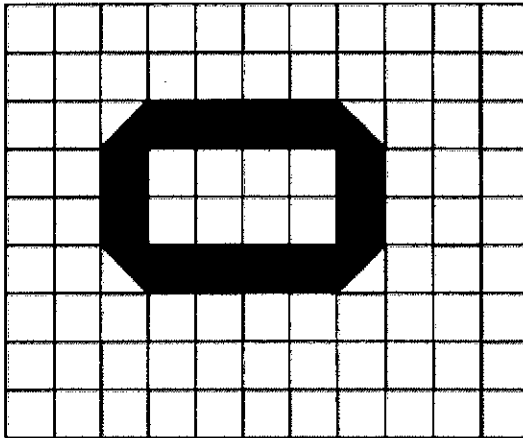
Part B

Find the perimeter of his garden. **Show your work. Write the unit of measurement after your answer. Explain what you did to get your answer.**

Part C

What shape is his garden?

55. Scarlett is gluing black, gray, and white tiles on a wooden board. The tiles she glued are shown.



Part A

What area is covered by black and gray tiles?

Part B

What area is covered by white tiles? **Show your work or explain your answer.**

Part C

What is the total area of the black, gray, and white tiles? **Explain your answer.**