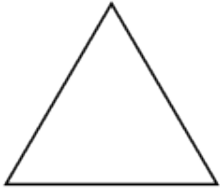


TEST NAME: **Brain Breakfast NC Check In #3**
TEST ID: **3599726**
GRADE: **03 - Third Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

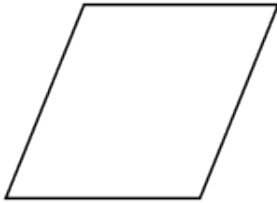
Student: _____
Class: _____
Date: _____

1. Which shape is a quadrilateral?

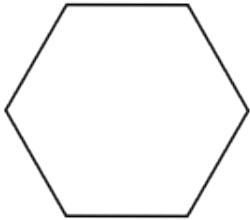
A.



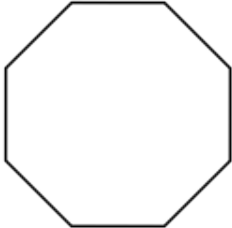
B.



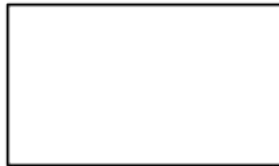
C.



D.



2. Which word cannot be used to classify the shape below?



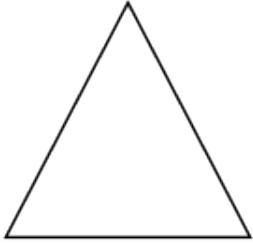
- A. quadrilateral
- B. parallelogram
- C. rectangle
- D. square

3. What is true for **all** quadrilaterals?

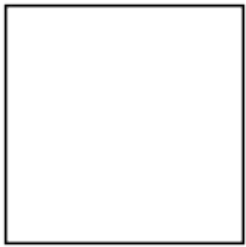
- A They all have 4 sides.
- B They all have 4 equal sides.
- C They all have 4 unequal sides.
- D They all have opposite sides of equal length.

4. Joseph drew a quadrilateral. Which shape could he have drawn?

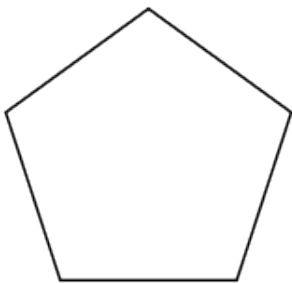
A



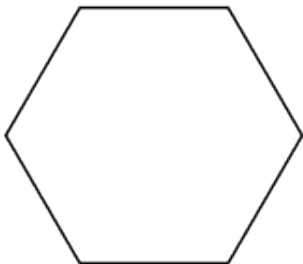
B.



C.



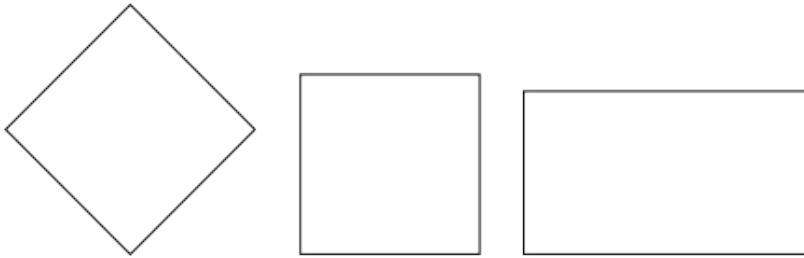
D.



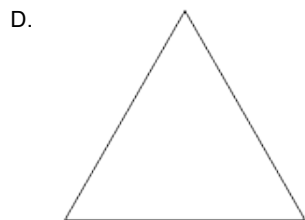
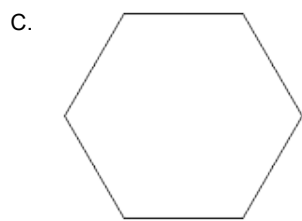
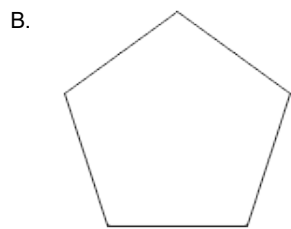
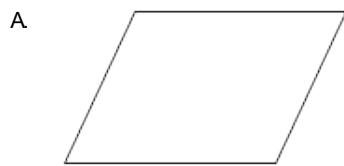
5. Ray needed to cut 20 shapes for an art project. He cut 10 quadrilaterals and 10 other shapes. Which could be the other shapes Ray cut?

- A square
- B. rhombus
- C. rectangle
- D. pentagon

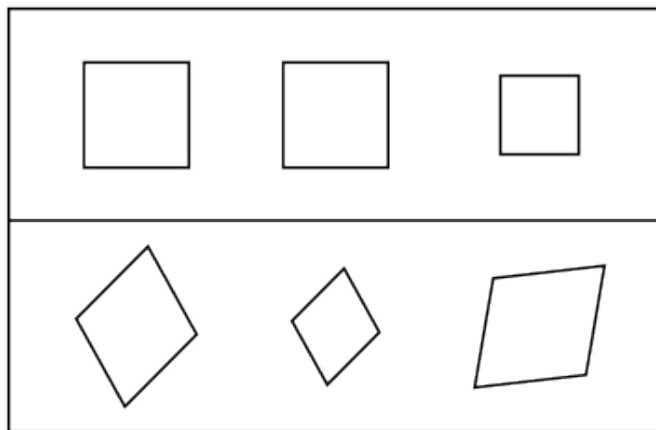
6. Melissa drew four quadrilaterals. Three are shown below.



Which could be the fourth figure Melissa drew?


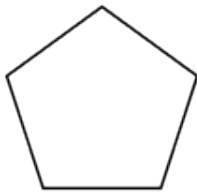
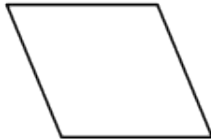
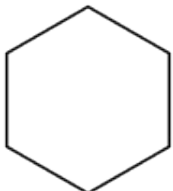


7. Which describes the figures below?



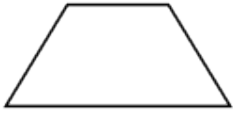
- A. All are rhombuses.
- B. All are squares.
- C. All are rectangles.
- D. All are pentagons.

8. Katlyn cut a quadrilateral using some construction paper. Which could be Katlyn's quadrilateral?

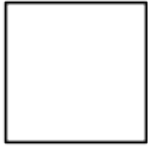
- A. 
- B. 
- C. 
- D. 

9. Which shape is classified as a rectangle?

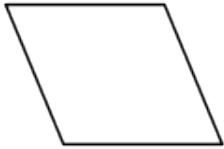
A.



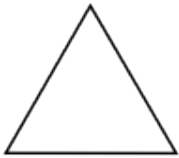
B.



C.



D.

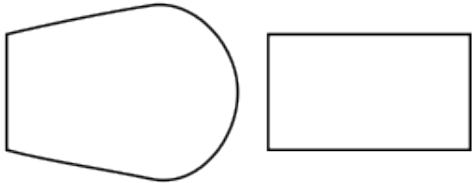


10. Which choice shows a pair of quadrilaterals?

A.



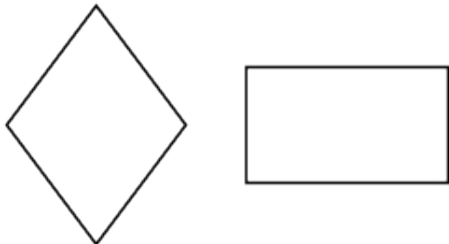
B.



C.



D.



11. Based on the shapes below, which statement is true?

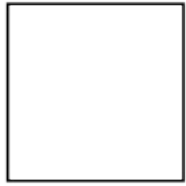


figure 1



figure 2

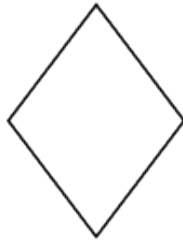


figure 3

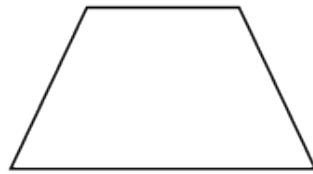
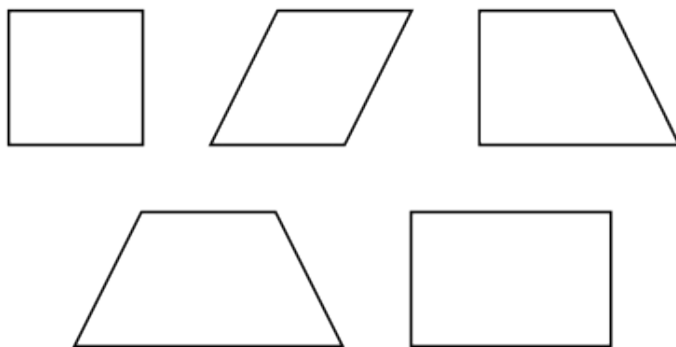


figure 4

- A. All the shapes are quadrilaterals, but only figure 1 is a square.
 - B. All the shapes are quadrilaterals, but only figure 2 is a square.
 - C. All the shapes are squares, but only figure 2 and figure 3 are rectangles.
 - D. All the shapes are squares, but only figure 3 and figure 4 are rhombuses.
12. Marissa ate a sandwich shaped like a square. Which word also describes the sandwich?
- A. octagon
 - B. pentagon
 - C. rhombus
 - D. trapezoid

13. Which statement describes all five polygons below?



- A. They are all squares.
- B. They are all quadrilaterals.
- C. They all have congruent sides.
- D. They all have opposite sides parallel.

14. Which shape can also be classified as a rectangle?

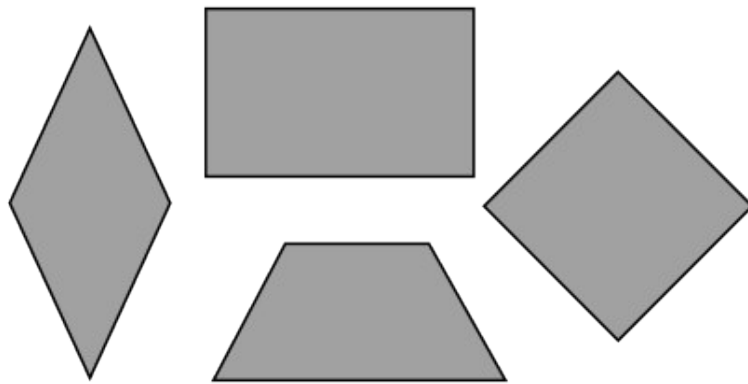
- A. kite
- B. rhombus
- C. square
- D. trapezoid

15. Which word describes the shapes below?



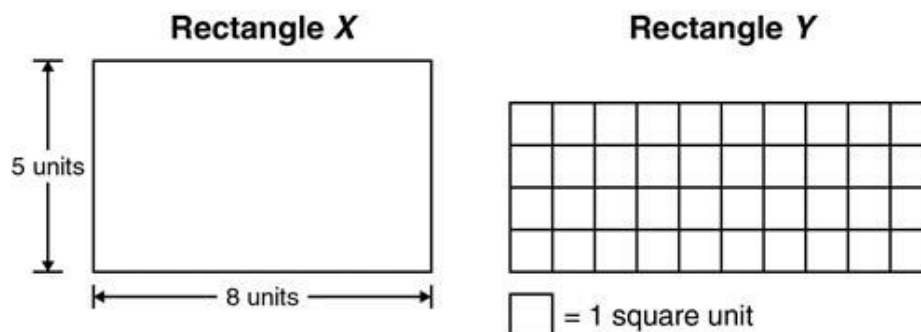
- A. quadrilateral
- B. square
- C. kite
- D. rhombus

16. Which statement describes **all** the figures below?



- A. They are all squares.
 - B. They are all rectangles.
 - C. They are all trapezoids.
 - D. They are all quadrilaterals.
17. Caitlin bought a rectangular poster. Which word is another way to describe the shape of the poster?
- A. parallelogram
 - B. pentagon
 - C. rhombus
 - D. trapezoid

18. Two rectangles are shown below.

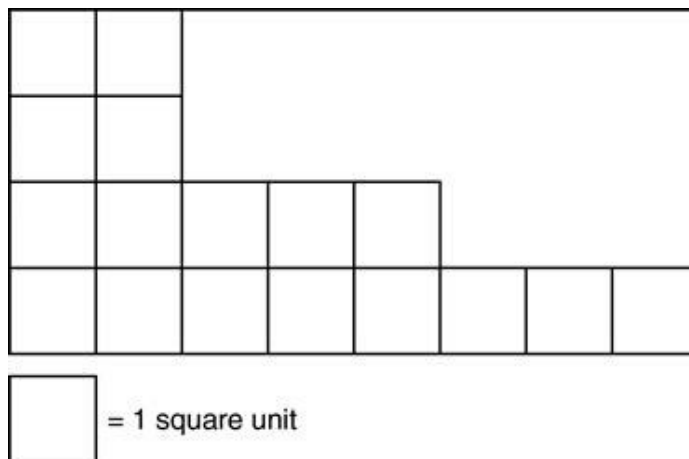


Which statement about these rectangles is true?

- A. Both rectangles have an area of 26 square units.
 - B. Both rectangles have an area of 40 square units.
 - C. Rectangle X has an area of 13 square units, and Rectangle Y has an area of 40 square units.
 - D. Rectangle X has an area of 40 square units, and Rectangle Y has an area of 28 square units.
19. The expression 3×4 represents the area of which figure?

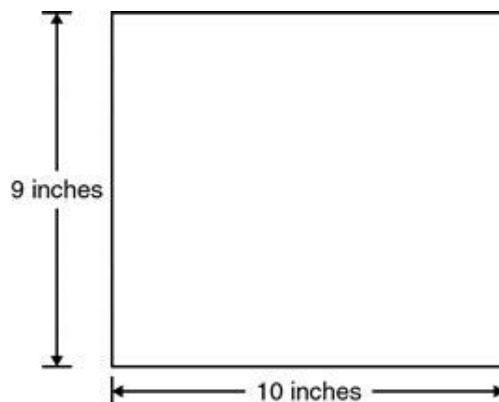
- A.
- B.
- C.
- D.

20. Equal-sized squares cover part of the rectangle shown below.



What is the area of this rectangle?

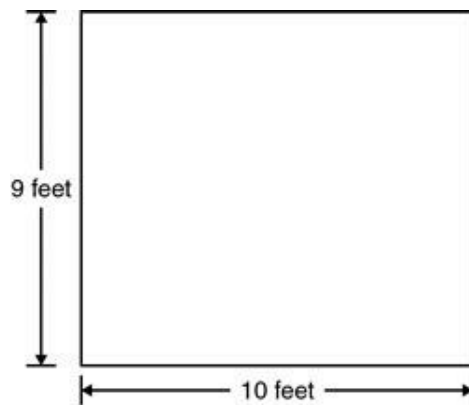
- A. 34 square units
 - B. 32 square units
 - C. 24 square units
 - D. 17 square units
21. A drawing of the rectangular top of Marcel's laptop computer is shown below.



Which expression can be used to find the area, in square inches, of the top of Marcel's laptop computer?

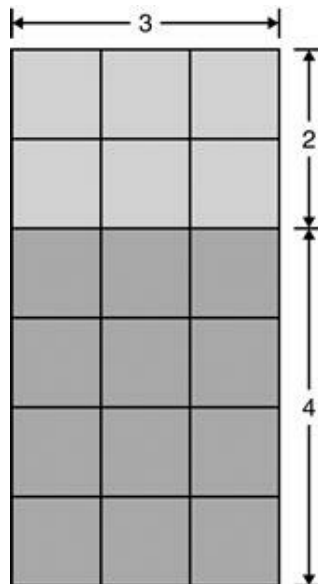
- A. $9 + 10 + 9 + 10$
- B. $9 \times 10 \times 9 \times 10$
- C. $9 + 10$
- D. 9×10

22. A drawing of a rectangular floor is shown below.



What is the area of this floor?

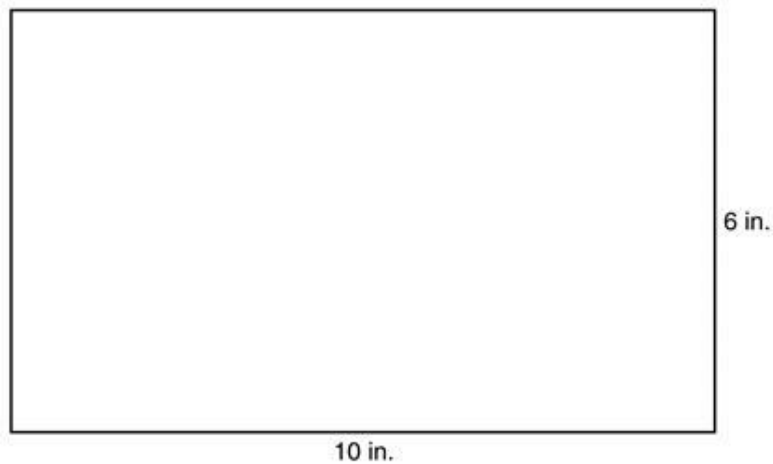
- A. 19 square feet
 - B. 38 square feet
 - C. 81 square feet
 - D. 90 square feet
23. Annie and Jake put tiles down on a rectangular floor. The model below is shaded to show the tiles Annie put down and the tiles Jake put down.



Which equation can be used to determine the area of this model?

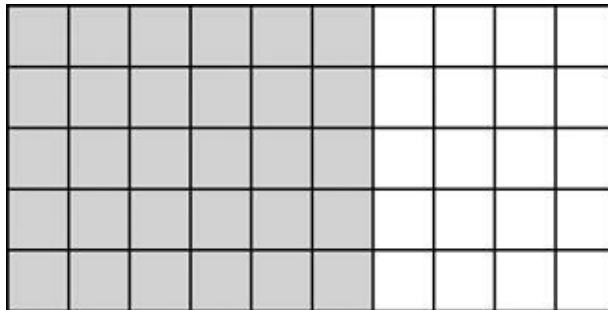
- A. $3 \times (2 + 4) = (3 \times 2) + (3 \times 4)$
- B. $3 \times (2 + 4) = (3 + 2 \times 3 + 4)$
- C. $2 \times (3 + 4) = (2 \times 4) \times (2 \times 3)$
- D. $2 \times (3 + 4) = (2 + 4) \times (2 + 3)$

24. The cover of Nicole's math book is shown below.



The bottom of the book is the same size as the top. What is the total area of the top and bottom of Nicole's book?

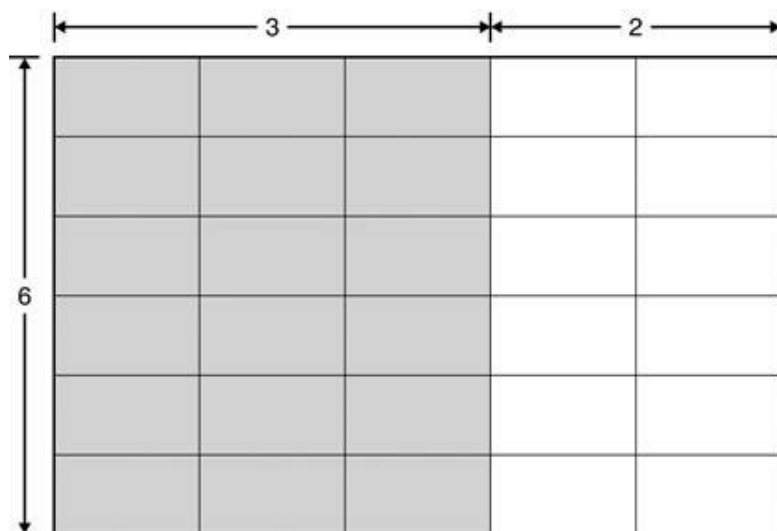
- A. 32 square inches
 - B. 60 square inches
 - C. 64 square inches
 - D. 120 square inches
25. Jim created a picture with cardboard squares. He used 6 columns of dark cardboard and 4 columns of white cardboard. Each column was 5 squares high as shown in the model below.



Which equation can be used to find the area of the model shown?

- A. $5 \times (6 + 4) = (5 + 6) \times (5 + 4)$
- B. $5 \times (6 + 4) = (5 \times 6) + (5 \times 4)$
- C. $6 \times (5 + 4) = (6 \times 5) + (6 \times 4)$
- D. $6 \times (5 + 4) = (6 + 5) \times (6 + 4)$

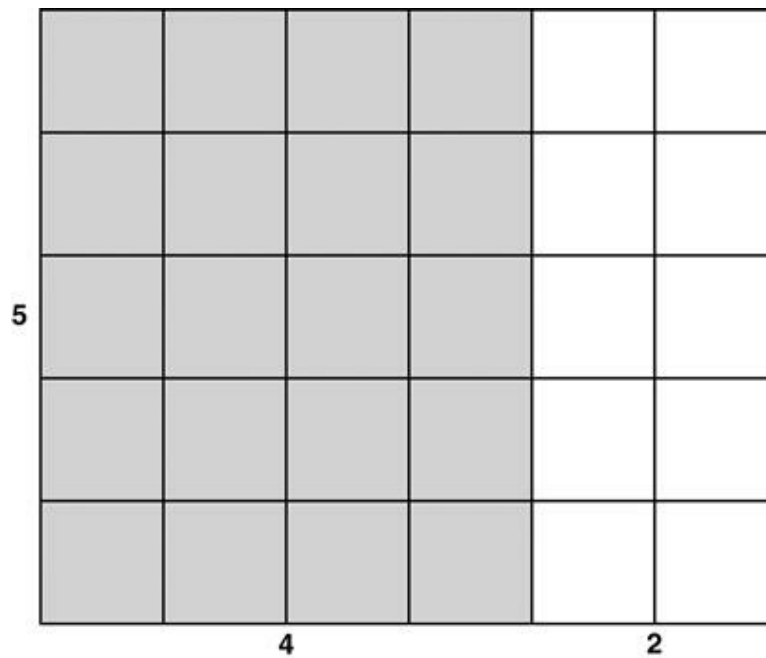
26. Emilio and Natasha each painted sections of a rectangular wall. The model below shows the sections painted.



Which equation could be used to find the area of this model?

- A. $6 \times (3 + 2) = (6 \times 3) \times (6 \times 2)$
- B. $6 \times (3 + 2) = (6 \times 3) + (6 \times 2)$
- C. $3 \times (6 + 2) = (3 \times 6) + (3 \times 2)$
- D. $3 \times (6 + 2) = (3 + 6) \times (3 + 2)$

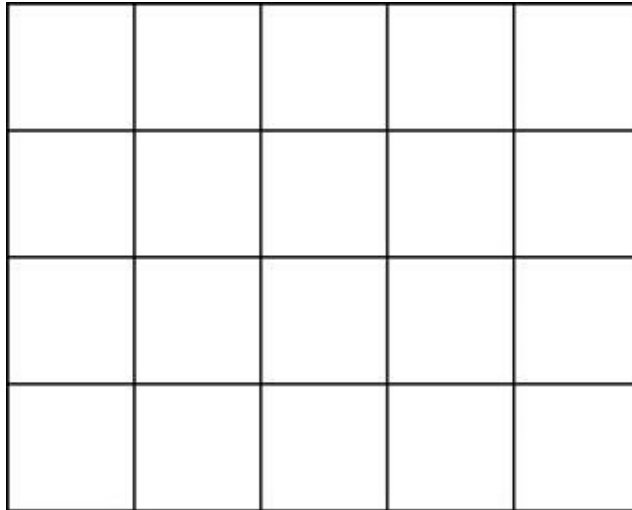
27. A grid is shown below.



Which of the following shows a way to find the total area of the shaded and unshaded parts?

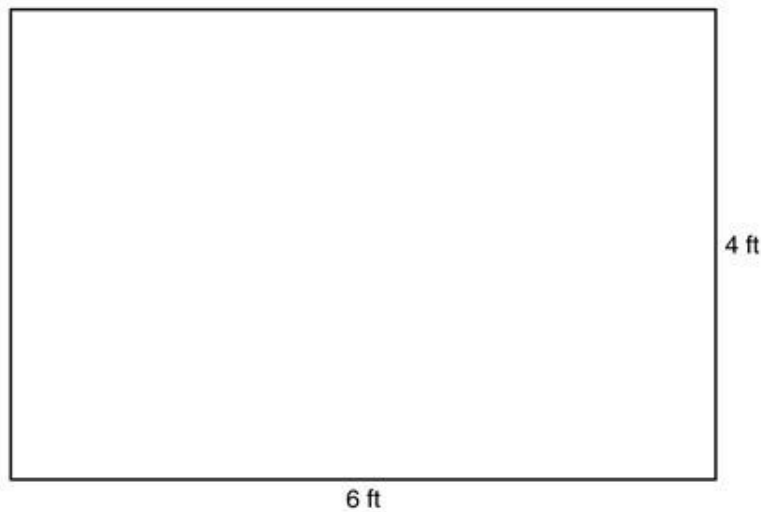
- A. add 5×4 and 5×2
- B. multiply 5×4 and 5×2
- C. add $5 + 4$ and $5 + 2$
- D. multiply $5 + 4$ and $5 + 2$

28. Ms. Anderson used square-inch tiles to show a model of a window.



Which equation correctly shows two ways to find the area of the window?

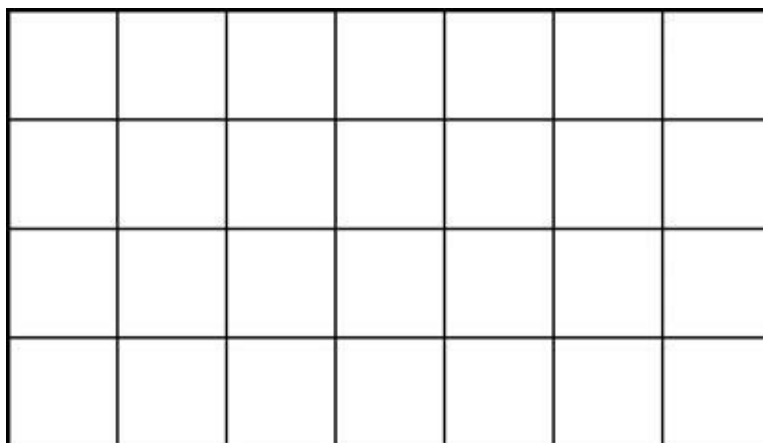
- A. $4 + 4 + 4 + 4 + 4 = 4 \times 5$
 - B. $5 + 5 + 5 + 5 = 4 + 5$
 - C. $4 \times 4 \times 4 \times 4 \times 4 = 4 \times 5$
 - D. $5 \times 5 \times 5 \times 5 = 4 + 5$
29. Miguel needed to paint a small fence. The dimensions of the fence are shown below.



What is the area of the fence?

- A. 10 square feet
- B. 16 square feet
- C. 20 square feet
- D. 24 square feet

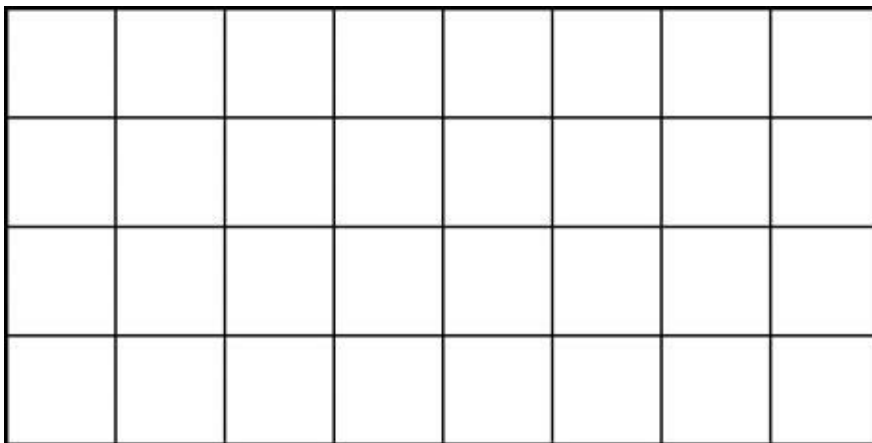
30. A rectangular picture has an area of 18 cm. Which of the following could be the length and width of the picture?
- A. Length of 28 cm and a width of 10 cm
 - B. Length of 18 cm and a width of 18 cm
 - C. Length of 8 cm and a width of 10 cm
 - D. Length of 6 cm and a width of 3 cm
31. The area of the front of a milk carton is 20 square inches. Which could be the length and width of the milk carton?
- A. 5 inches and 4 inches
 - B. 10 inches and 4 inches
 - C. 10 inches and 10 inches
 - D. 20 inches and 2 inches
32. Gabrielle used squares to cover the rectangle shown below. Each square is 1 inch wide and 1 inch tall.



What is the area of the rectangle Gabrielle covered?

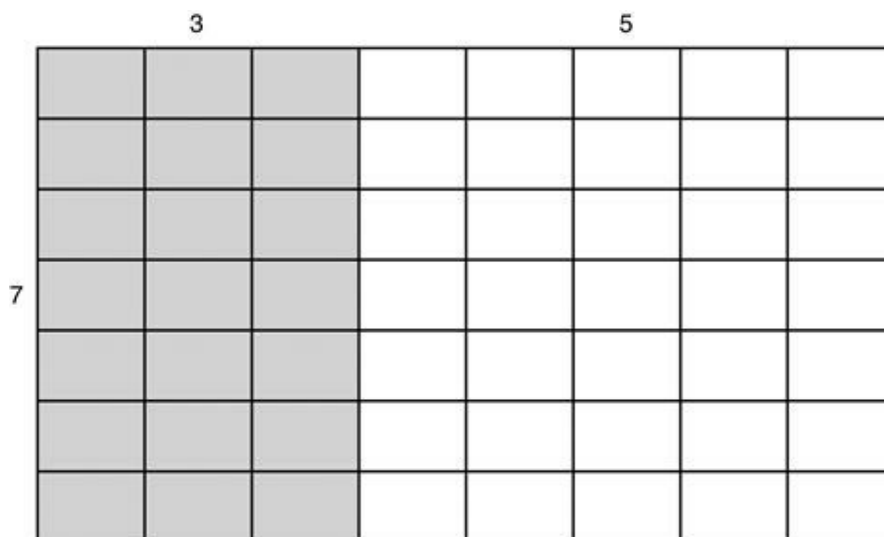
- A. 4 square inches
- B. 7 square inches
- C. 28 square inches
- D. 32 square inches

33. Each small square in the rectangle below has an area of 1 square foot.



Which expression could be used to find the area of the rectangle, in square feet?

- A. $4 + 4$
 - B. $4 + 8$
 - C. 4×4
 - D. 4×8
34. Mr. Juarez covered a window in his classroom with gray and white construction paper. The model below shows the window he covered.

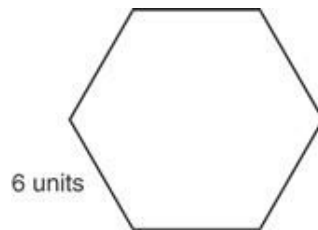


Which equation can be used to find the area of the window covered with construction paper?

- A. $3 \times (7 + 5) = (3 \times 7) + (3 \times 5)$
- B. $3 \times (7 + 5) = (3 + 7) \times (3 + 5)$
- C. $7 \times (3 + 5) = (7 + 3) \times (7 + 5)$
- D. $7 \times (3 + 5) = (7 \times 3) + (7 \times 5)$

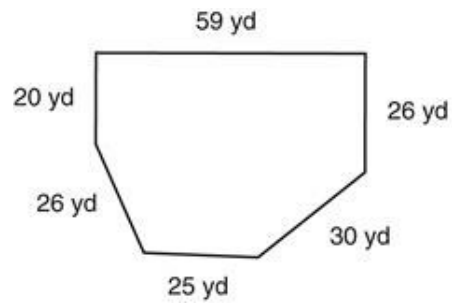
35. Iris painted 8 hexagon-shaped paving stones that she will place on the ground as a pathway from her back porch to her swimming pool. The paving stones are 9 inches on each side. What is the perimeter of each stone?
- A. 45 inches
 - B. 54 inches
 - C. 63 inches
 - D. 72 inches

36. What is the perimeter of the polygon if each side is 6 units long?



- A. 1 unit
 - B. 12 units
 - C. 30 units
 - D. 36 units
37. Maria has a small table next to her couch. The top of her table is shaped like a pentagon and is 8 inches on each side. What is the perimeter of Maria's table top?
- A. 32 inches
 - B. 40 inches
 - C. 48 inches
 - D. 56 inches

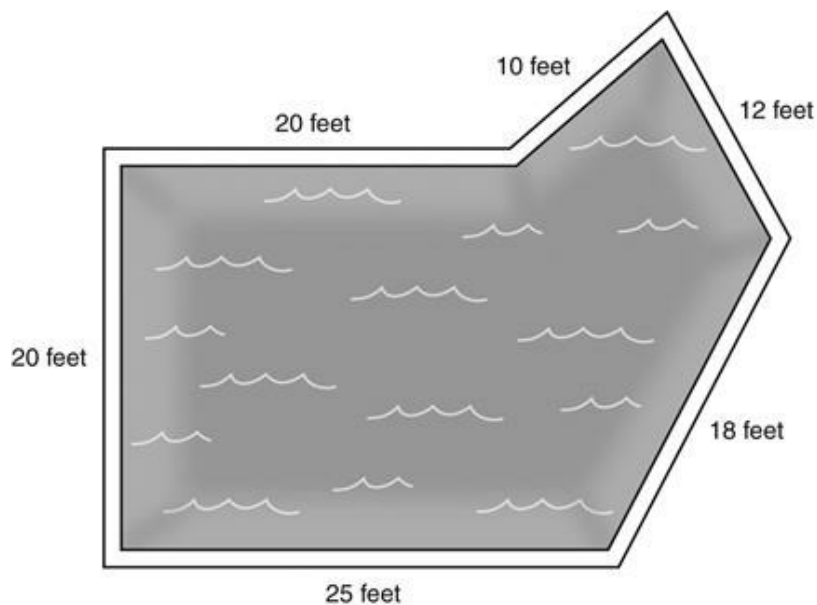
38. A top view of an office building is shown below.



What is the perimeter of the building, in yards?

- A. 160 yd
- B. 166 yd
- C. 186 yd
- D. 192 yd

39. A top view of the swimming pool at a hotel is shown.

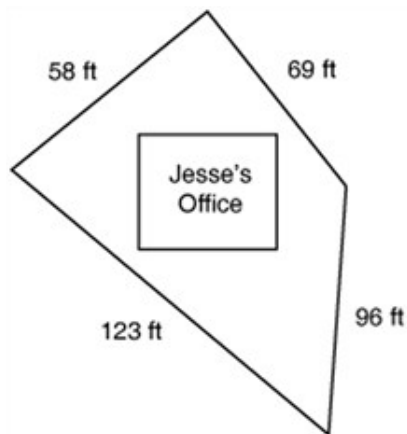


Perimeter = distance around a figure

Which sentence BEST describes how to find the perimeter of the top of the pool?

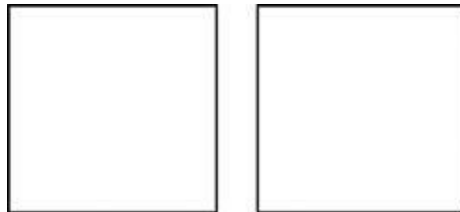
- A. Add the lengths of the sides of the pool.
- B. Multiply the lengths of the sides of the pool.
- C. Multiply the length of the shortest side of the pool by the length of the longest side of the pool.
- D. Add the length of the shortest side of the pool to the length of the longest side of the pool and double the answer.

40. Jesse's office building was constructed on a plot of land shaped like a quadrilateral.



What is the perimeter of the plot of land?

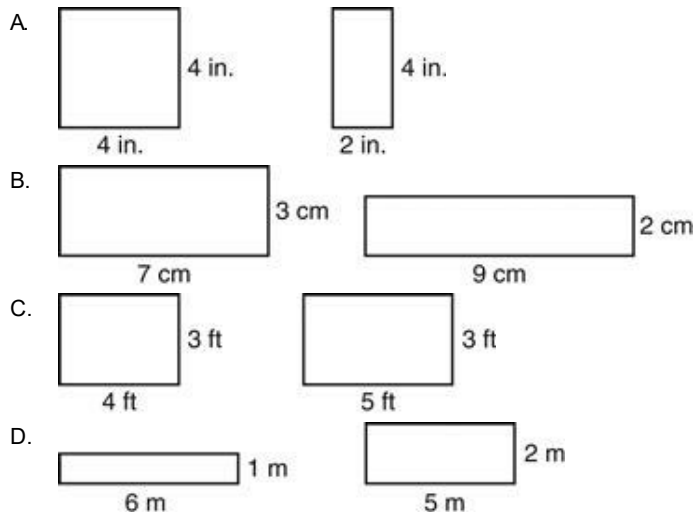
- A. 173 feet
 - B. 192 feet
 - C. 308 feet
 - D. 346 feet
41. Jackie plans to put the two squares below together side-by-side to make a rectangle.



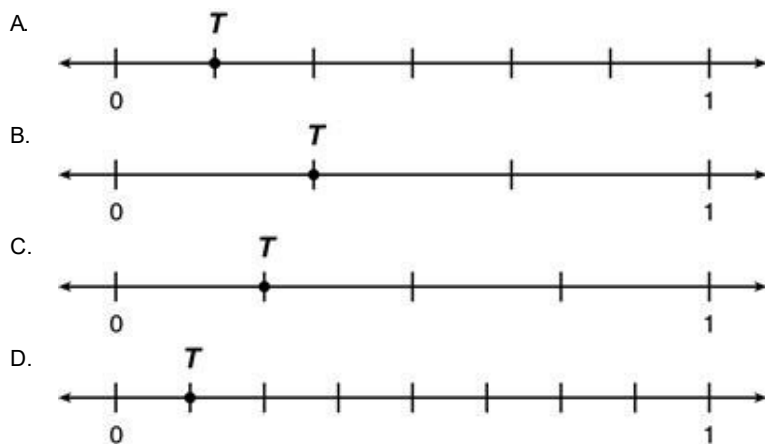
Which sentence is TRUE about the perimeter of the rectangle she will make?

- A. The perimeter of the rectangle will be equal to the perimeter of 1 square.
- B. The perimeter of the rectangle will be equal to the sum of the perimeters of the 2 squares.
- C. The perimeter of the rectangle will be larger than the sum of the perimeters of the 2 squares.
- D. The perimeter of the rectangle will be smaller than the sum of the perimeters of the 2 squares.

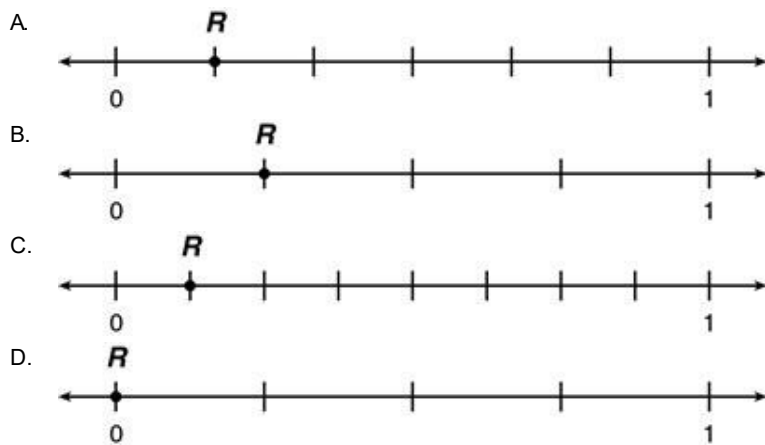
42. Which pair of rectangles has the same perimeter?



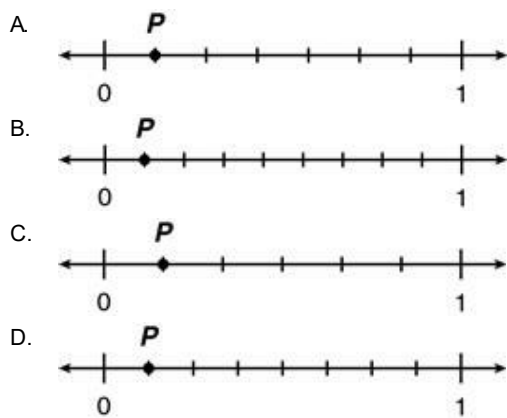
43. On which number line does Point T BEST represent $\frac{1}{8}$?



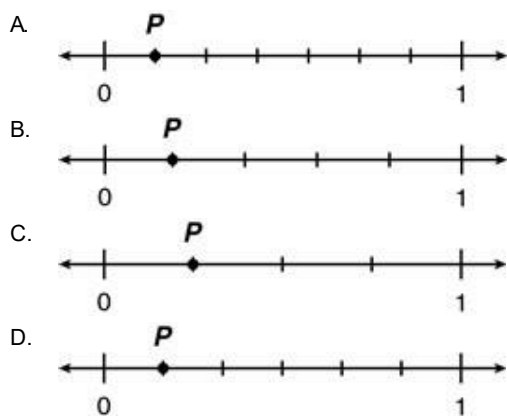
44. On which number line does Point R BEST represent $\frac{1}{4}$?



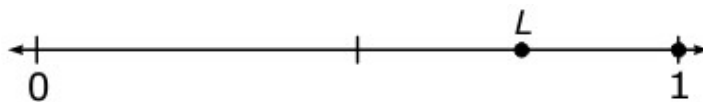
45. Which number line shows Point P at $\frac{1}{8}$?



46. Which number line shows Point P at $\frac{1}{6}$?

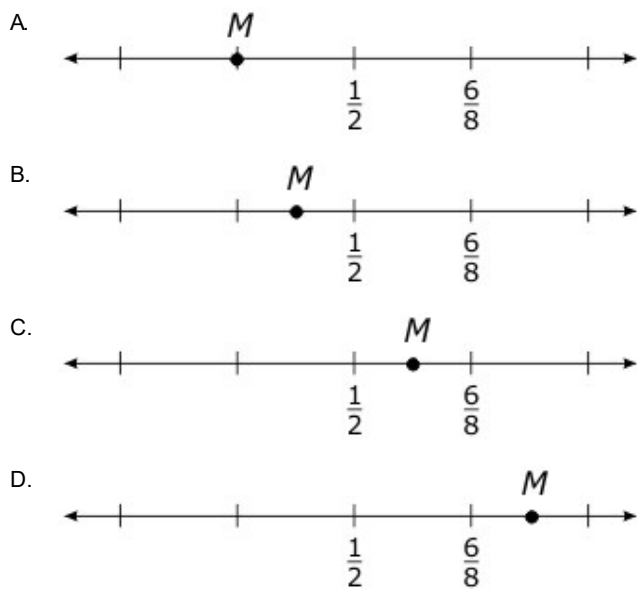


47. What fraction is represented by point L on this number line?

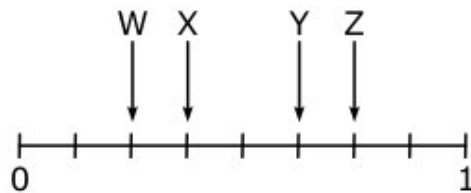


- A. $\frac{1}{2}$
- B. $\frac{2}{3}$
- C. $\frac{2}{4}$
- D. $\frac{3}{4}$

48. Which number line shows point M at $\frac{3}{8}$?

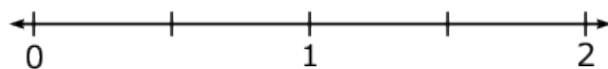


49. Which letter has a value of $\frac{3}{4}$ on this number line?



- A. W
- B. X
- C. Y
- D. Z

50. What is the distance between each mark on the number line below?



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

51. Which number line has point R plotted at $\frac{4}{6}$?

- A.

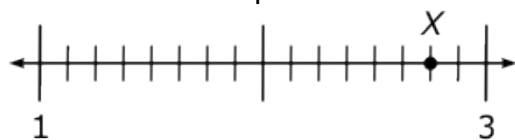
A horizontal number line from 0 to 1 with 5 equal intervals. Point R is plotted at the second tick mark from 0.
- B.

A horizontal number line from 0 to 1 with 5 equal intervals. Point R is plotted at the third tick mark from 0.
- C.

A horizontal number line from 0 to 1 with 5 equal intervals. Point R is plotted at the fourth tick mark from 0.
- D.

A horizontal number line from 0 to 1 with 5 equal intervals. Point R is plotted at the fifth tick mark from 0, which is at 1.

52. What fraction shows the location of point X ?



- A. $\frac{17}{8}$
- B. $\frac{9}{4}$
- C. $\frac{11}{4}$
- D. $\frac{23}{8}$

53. Which whole number can also be written as the fraction $\frac{12}{2}$?

- A. 6
- B. 10
- C. 14
- D. 24

54. Which fraction is equal to the whole number 19?

- A. $\frac{19}{1}$
- B. $\frac{9}{1}$
- C. $\frac{1}{9}$
- D. $\frac{1}{19}$

55. Which whole number can also be written as the fraction $\frac{9}{3}$?

- A. 3
- B. 6
- C. 12
- D. 27

56. Which whole number can also be written as the fraction $\frac{4}{4}$?

- A. 0
- B. 1
- C. 4
- D. 8

57. Which fraction is equal to the whole number 1?

- A. $\frac{0}{8}$
- B. $\frac{1}{8}$
- C. $\frac{8}{8}$
- D. $\frac{8}{1}$

58. Which fraction is NOT equal to a whole number?

- A. $\frac{2}{8}$
- B. $\frac{6}{6}$
- C. $\frac{12}{2}$
- D. $\frac{8}{1}$

59. Which fraction is equal to the whole number 25?

- A. $\frac{1}{25}$
- B. $\frac{2}{5}$
- C. $\frac{5}{2}$
- D. $\frac{25}{1}$

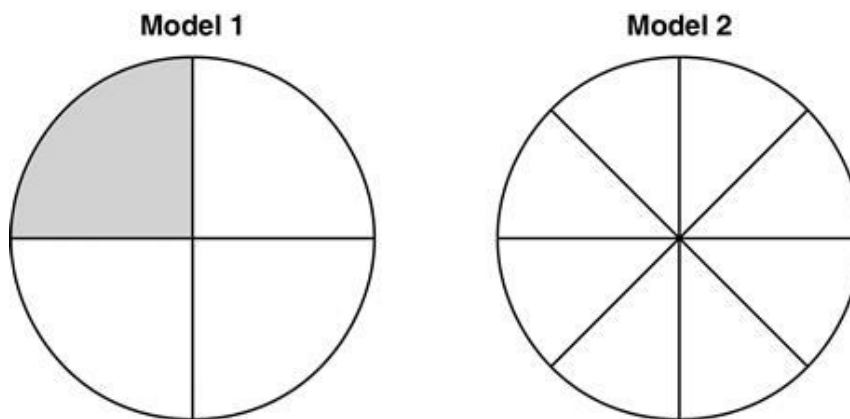
60. Which fraction is equal to the whole number 9?

- A. $\frac{9}{1}$
- B. $\frac{4}{5}$
- C. $\frac{10}{1}$
- D. $\frac{1}{9}$

61. Which fraction is equal to the whole number 16?

- A. $\frac{1}{16}$
- B. $\frac{1}{6}$
- C. $\frac{6}{1}$
- D. $\frac{16}{1}$

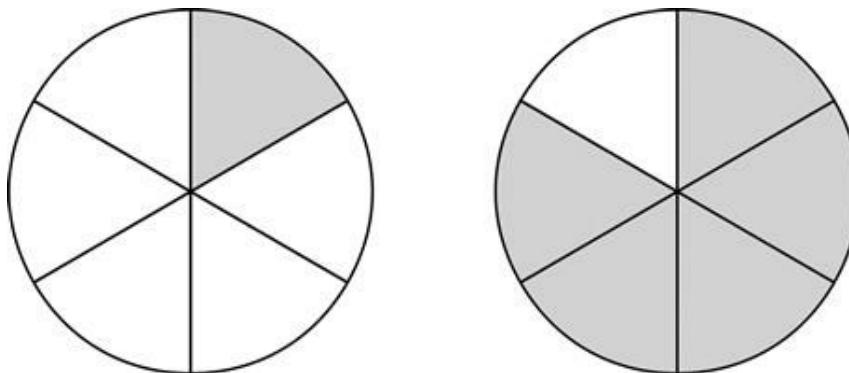
62. Each model below is divided into equal-sized parts.



One-fourth of Model 1 is shaded. Exactly how many of the parts in Model 2 should be shaded to show a fraction that is equal to $\frac{1}{4}$?

- A. 1
- B. 2
- C. 4
- D. 6

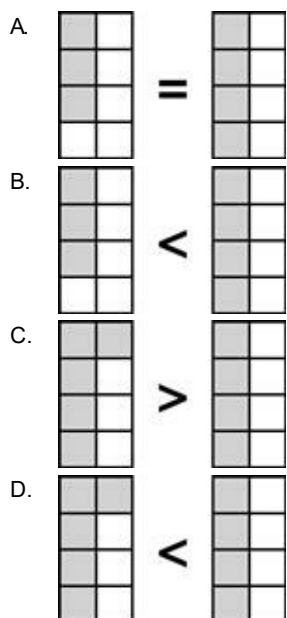
63. These circles are shaded to show two fractions.



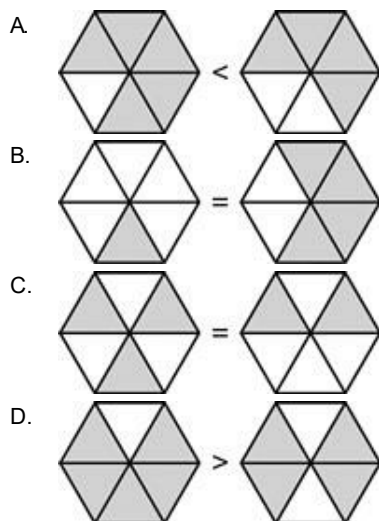
Which number sentence BEST compares these fractions?

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

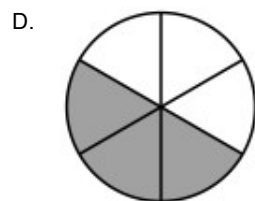
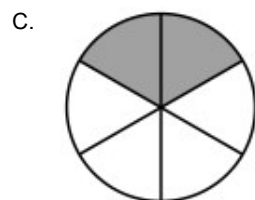
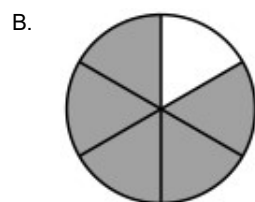
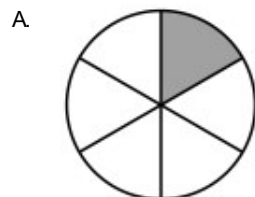
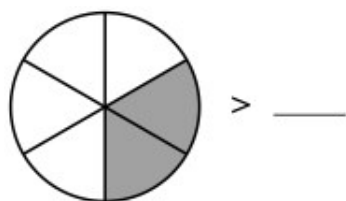
64. Which model correctly compares $\frac{5}{8}$ and $\frac{4}{8}$?



65. Molly drew two figures on her book cover. Each figure is exactly the same size and shape. She shaded 5 parts on the first figure and 4 parts on the second figure. Which models correctly compare Molly's two shaded figures?



66. Which figure could be added to the diagram to make it true?



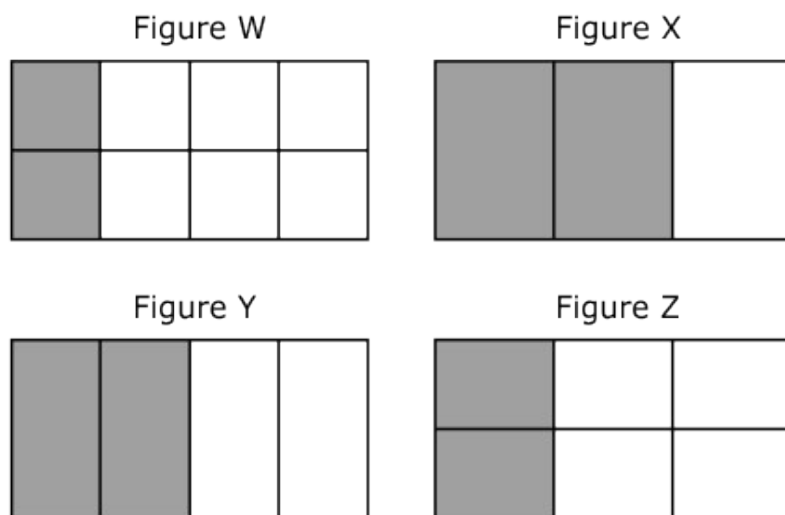
67. Donna shaded this rectangle.



Michael's rectangle is the same size. He shaded less than Donna. Which choice could be the shaded fraction of Michael's rectangle?

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

68. Which figure below has the smallest amount shaded?



- A. Figure W
- B. Figure X
- C. Figure Y
- D. Figure Z

69. Which compares the fractions correctly?

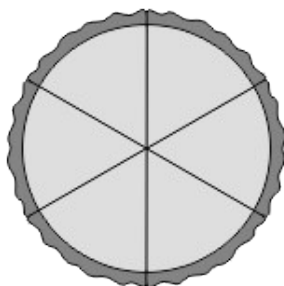
A. $\frac{2}{8} > \frac{2}{6}$

B. $\frac{2}{8} < \frac{2}{6}$

C. $\frac{2}{8} = \frac{2}{6}$

D. $\frac{2}{8} > \frac{2}{8}$

70. Rachel and Tameka shared the pie below.



Rachel ate $\frac{3}{6}$ of the pie. Tameka ate less. How much of the pie did Tameka eat?

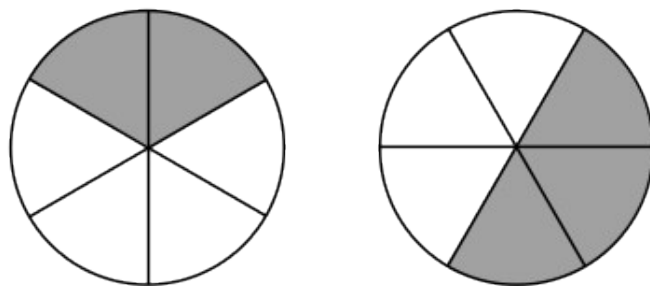
A. $\frac{4}{6}$

B. $\frac{2}{6}$

C. $\frac{6}{6}$

D. $\frac{5}{6}$

71. Which compares the shaded parts of the circles below?



A. $\frac{2}{4} > \frac{3}{3}$

B. $\frac{2}{6} < \frac{3}{6}$

C. $\frac{2}{6} = \frac{3}{6}$

D. $\frac{2}{4} < \frac{3}{3}$

72. Which inequality is true?

A. $\frac{1}{8} > \frac{4}{8}$

B. $\frac{2}{8} > \frac{7}{8}$

C. $\frac{3}{8} < \frac{1}{8}$

D. $\frac{2}{8} < \frac{5}{8}$