

Grade 5 Form N

Student Name

Teacher Name


Sample 1: Exactly how many sides does a triangle have?


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

Sample 2: Identify whether each number sentence is True or False.

- a* $3 \times 4 = 12$ (T) True (F) False
- b* $18 \div 3 = 6$ (T) True (F) False
- c* $4 \times 5 = 9$ (T) True (F) False

 **Sample 3:** What is $10 + 14$?

 **Sample 4:** What decimal number is represented by the phrase “four and five tenths”?

 This symbol appears next to questions that require you to fill in your answers on a grid on the Answer Sheet. Directions for completing the Response Grid:

1. Work the problem and find an answer.

2. Write your answer in the answer boxes at the top of the grid.

For whole-number grids:

- Print your answer with the first digit in the answer box all the way to the left, OR with the last digit in the answer box all the way to the right.
- Print only one digit in each answer box. Do NOT leave a blank answer box in the middle of an answer.

For decimal grids:

- Use the decimal point to decide where to start printing your answer.

3. Fill in a bubble under each answer box that you used to write your answer.

- Fill in one and ONLY one bubble for each answer box. Do NOT fill in a bubble under an unused answer box.
- Fill in each bubble by making a solid black mark that completely fills the circle.
- You MUST fill in the bubbles accurately to receive credit for your answer.

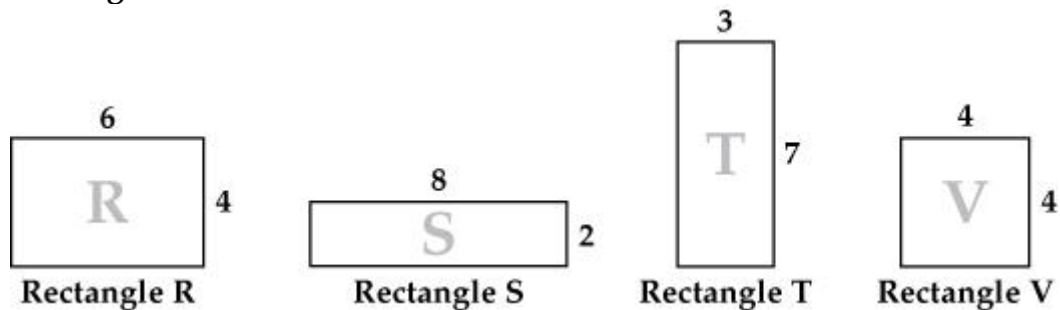
Use the blank space in this Test Booklet to do your work. Then mark your Answer Sheet for the answer you have chosen.

1. What is the least common multiple (LCM) of 4 and 6 ?

- A. 4
- B. 6
- C. 12
- D. 24

Use the information below to answer numbers 2–5.

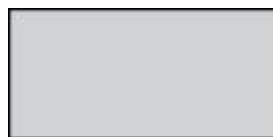
Four rectangles are shown below.



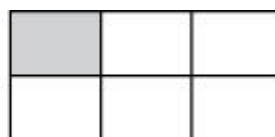
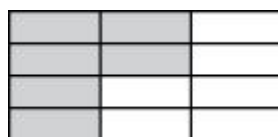
Answer (Y) Yes for each rectangle in which its perimeter is greater than its area. Otherwise, answer (N) No.

- | | |
|----------------|----------------|
| 2. Rectangle R | (Y) Yes (N) No |
| 3. Rectangle S | (Y) Yes (N) No |
| 4. Rectangle T | (Y) Yes (N) No |
| 5. Rectangle V | (Y) Yes (N) No |

6. This shaded rectangle represents one whole:



Two fractions are represented by the shaded portions of the rectangles shown below.



When added together, what is the sum of these two fractions?

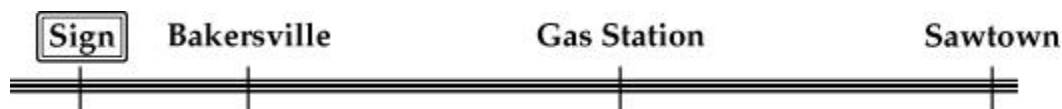
- A. $\frac{7}{18}$
B. $\frac{7}{12}$
C. $\frac{4}{9}$
D. $\frac{2}{3}$

Use the information below to answer numbers 7–8.

Kyle is traveling along a road toward Sawtown and sees the following sign.

Bakersville	6 miles
Sawtown	50 miles

A gas station is located halfway between Bakersville and Sawtown as shown on this diagram.



7. How many miles is it from Bakersville to Sawtown?



8. How many miles is it from the sign to the gas station?

Use the following information to answer numbers 9–10.

Lin is going to the county fair tonight. His mother gave him \$24 to spend on ride tickets. Tickets for fast rides cost \$3 each, and tickets for slow rides cost \$2 each.



9. Lin plans to spend all of the money his mother gave him on fast-ride tickets. What is the total number of fast-ride tickets that Lin can buy?



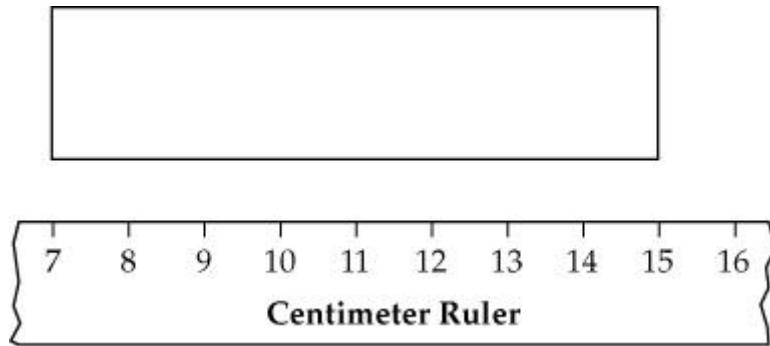
10. Which statement could represent the word problem above?

- A. number of fast-ride tickets = 24×3
- B. number of fast-ride tickets = $24 \div 3$
- C. number of fast-ride tickets = 24×2
- D. number of fast-ride tickets = $24 \div 2$

11. What is the total number of different factors for the number 24 ?

- A. 8
- B. 6
- C. 4
- D. 2

12. Use the broken centimeter ruler shown below the rectangle as a tool to measure the perimeter of this rectangle.

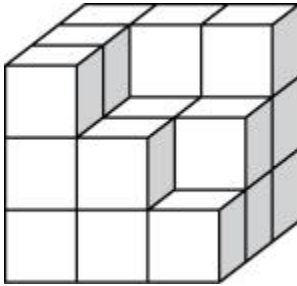
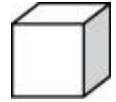


What is the perimeter of the rectangle, to the nearest whole centimeter?

- A. 15
B. 20
C. 30
D. 50
13. Which fraction has a value closest to $\frac{3}{4}$?

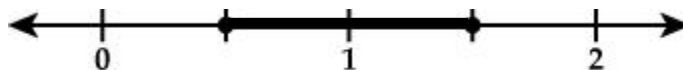
- A. $\frac{1}{5}$
B. $\frac{1}{4}$
C. $\frac{4}{4}$
D. $\frac{5}{8}$

14. Malik built the solid figure below by stacking together some unit cubes.



What is the total number of unit cubes in Malik's solid figure?

- A. 9
B. 14
C. 22
D. 27
15. Look at the range of numbers graphed on this number line, as represented by the bolded section.



When plotted on the number line, which value would not lie within the range of numbers that lie within the bolded section?

- A. $\frac{7}{6}$
B. 0.12
C. $\frac{4}{5}$
D. 1.35

Use the following information to answer numbers 16–19.

Jenna knows that she could solve the following multiplication problem using several different methods and still get the correct answer.

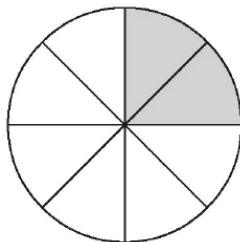
$$\begin{array}{r} 49 \\ \times 5 \\ \hline \end{array}$$

Which of the following methods would result in a correct answer for this problem?

- | | | | |
|-----|---|---------|--------|
| 16. | Multiply 50 and 5, and then subtract 5. | (Y) Yes | (N) No |
| 17. | Multiply 50 and 5, and then subtract 49. | (Y) Yes | (N) No |
| 18. | Multiply 9 and 5, then multiply 4 and 5, and then add the two products together. | (Y) Yes | (N) No |
| 19. | Multiply 40 and 5, then multiply 9 and 5, and then add the two products together. | (Y) Yes | (N) No |

Use the following information to answer numbers 20–24.

This circle is shaded to represent a fraction of the whole circle.



Determine whether each fraction or decimal below could represent the shaded portion of the circle.

20. $\frac{2}{6}$ (Y) Yes (N) No

21. $\frac{2}{8}$ (Y) Yes (N) No

22. $\frac{1}{4}$ (Y) Yes (N) No

23. 0.20 (Y) Yes (N) No

24. 0.25 (Y) Yes (N) No

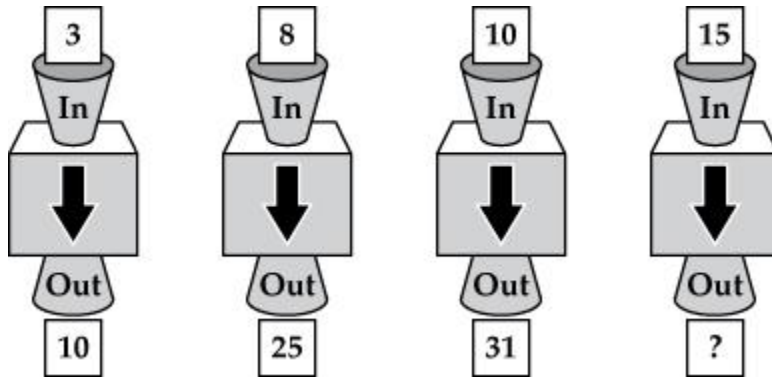


25. What decimal number should go in the _____ to make this number sentence true?

$$0.080 + 0.114 + 0.306 + \underline{\hspace{1cm}} = 3.8$$



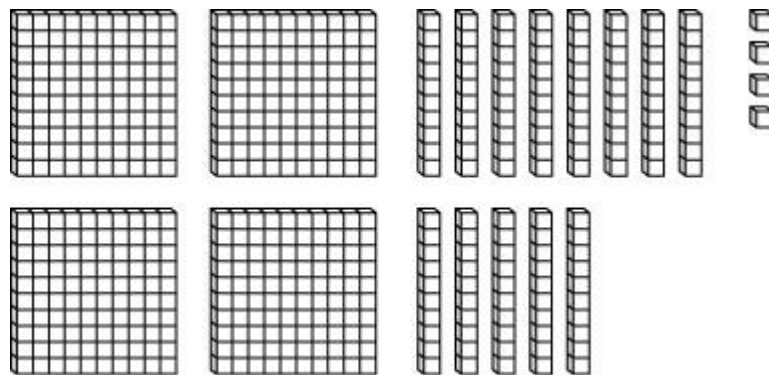
26. A number machine applies the same rule to all numbers that are put into it. The picture below shows the numbers that came out of this number machine after three different numbers were put into it and the rule was applied.



What number should come out of this machine when 15 is put in?




27. A set of place value blocks is shown below.

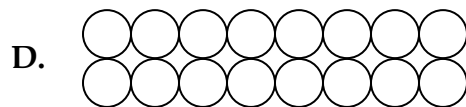
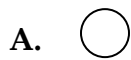


What is the value of the whole number represented by all of these blocks?



28. If $a + b = 5$, what does $18 + b + a$ equal?

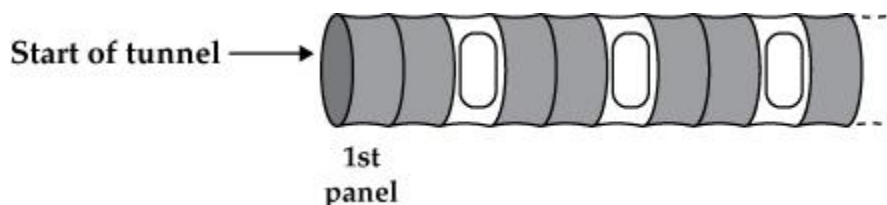
- A. 13
- B. 23
- C. 28
- D. 33

29.  represents $\frac{1}{4}$ of a set of circles. Which of the following could represent the whole set of circles?

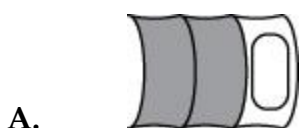


Use the following information to answer questions 30–33.

A play tunnel is made by repeating groups of three panels using solid panels  and window panels  as described in the picture below. The picture shows the first ten panels of the tunnel.



30. Which section of panels below continues the pattern in this tunnel for the 11th through 13th panels?



For each of the following patterns, determine whether it follows the same rule as the pattern in the play tunnel above.

31. G G R G G R G G R G . . . (Y) Yes (N) No

32.  (Y) Yes (N) No

33.  (Y) Yes (N) No

Use the information below to answer numbers 34–37.

The two fastest times recorded for running a 200-meter race are 19.19 seconds, by Usain Bolt, and 19.32 seconds, by Michael Johnson.



Identify whether each decimal number below is greater than 19.19 and less than 19.32.

34. 19.309 (T) True (F) False

35. 19.8 (T) True (F) False

36. 19.247 (T) True (F) False

37. 19.031 (T) True (F) False

38. There will be 27 people at a party, and each person will get 2 slices of pizza. Each pizza has 8 slices. How many pizzas need to be ordered for the party?

- A. 6
- B. 7
- C. 16
- D. 54

For numbers 39–40, determine whether each equation is equal.

39. $0.56 = \frac{5}{6}$

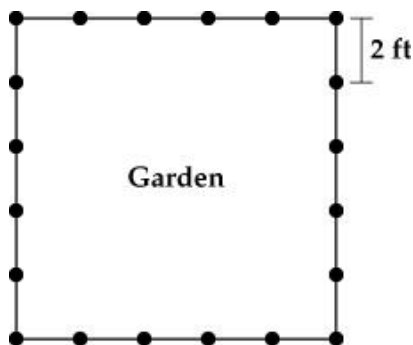
(Y) Yes (N) No

40. $1.6 = 1\frac{3}{5}$

(Y) Yes (N) No

Use the information below to answer numbers 41–43.

Mr. Reyes built a fence to enclose his square garden. He used 20 fence posts and placed them 2 feet apart, as shown below.



41. Based on this information, which statement must be true?


- A. The length of the garden is greater than the width of the garden.
- B. The width of the garden is greater than the length of the garden.
- C. The value of the perimeter is greater than the value of the area of the garden.
- D. The value of the area is greater than the value of the perimeter of the garden.

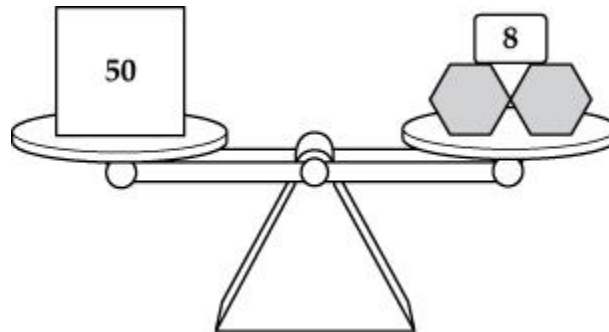


42. What is the perimeter, in feet, of the garden?



43. What is the area, in square feet, of the garden?

-  44. For the question below, shapes are assigned a weight. Identical shapes have the same weight. This scale is balanced so that the total weight on each of the sides is the same.



What is the value of the weight for this shape?

