

Grade 5 Form L

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:

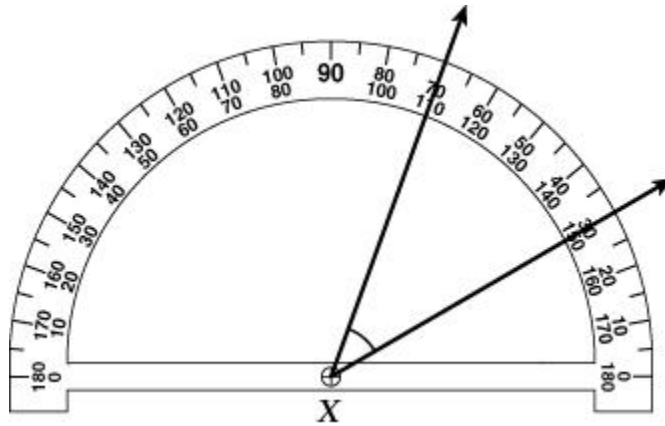
- Use the decimal point to decide where to start printing your answer.

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. Angle X is shown in the picture below.

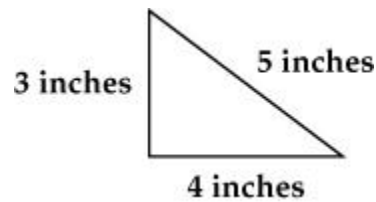


What is the measure of angle X to the nearest degree?

- A. 30°
- B. 40°
- C. 70°
- D. 110°

Use the following information to answer numbers 2–5.

Calvin will use pins and toothpicks to measure the perimeter of the triangle shown below. The length of each pin is 1 inch and the length of each toothpick is 3 inches. He lays them end-to-end while measuring.



Determine which measurements would be equal to the perimeter of the triangle.

- | | | |
|----|-------------------------|----------------|
| 2. | 6 pins | (Y) Yes (N) No |
| 3. | 12 pins | (Y) Yes (N) No |
| 4. | 3 toothpicks and 3 pins | (Y) Yes (N) No |
| 5. | 2 toothpicks and 6 pins | (Y) Yes (N) No |

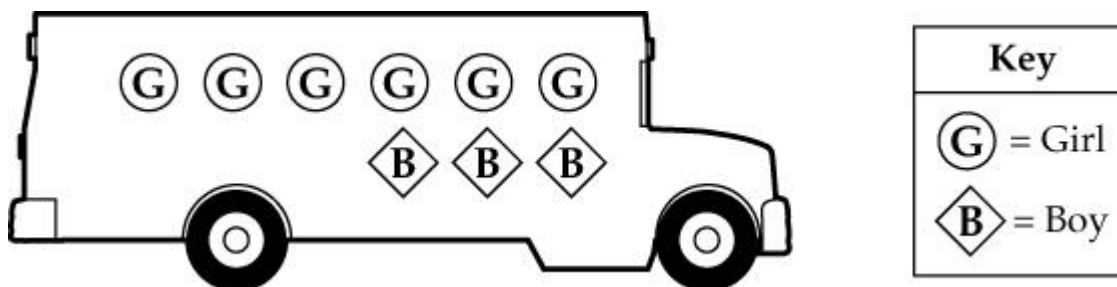
6. Look at this set of cards.

4.603	4.8	4.0997	4.59
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Which ordering of the cards lists the numbers from least to greatest value?

- | | | | | |
|----|--------|--------|--------|--------|
| A. | 4.603 | 4.8 | 4.0997 | 4.59 |
| B. | 4.8 | 4.59 | 4.603 | 4.0997 |
| C. | 4.0997 | 4.59 | 4.603 | 4.8 |
| D. | 4.603 | 4.0997 | 4.8 | 4.59 |

7. This picture shows the number of students on Mr. Harvey's bus.



Based on the picture, which statement is true?

- A. $\frac{6}{9} - \frac{3}{3}$ equals the fraction of students on the bus who are girls.
- B. $\frac{6}{9} - \frac{3}{9}$ equals the fraction of students on the bus who are girls.
- C. $\frac{6}{6} - \frac{3}{3}$ equals the fraction of students on the bus who are boys.
- D. $\frac{9}{9} - \frac{6}{9}$ equals the fraction of students on the bus who are boys.



8. Dex plays a number game. You give him a number and he —

- doubles the number
- adds 6 to that answer
- subtracts 3 from that answer.

Dex then reports what he gets as the result of these three actions.

What number should you give Dex so that he reports 35 as the result?

Use the following information to answer questions 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

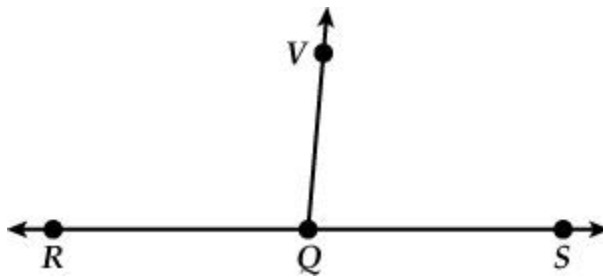
12. Which polygon named below has more than 5 sides and fewer than 10 sides?

- A. Decagon
- B. Octagon
- C. Pentagon
- D. Rhombus

13. Which of the following numbers is greater than 0.23 but less than 0.57 ?

- A. 0.046
- B. 0.615
- C. 0.358
- D. 0.224

14. In the diagram below, the measure of $\angle RQS$ is 180 degrees and the measure of $\angle VQS$ is 85 degrees.



What is the measure of $\angle RQV$?

- A. 95 degrees
- B. 90 degrees
- C. 85 degrees
- D. 80 degrees

15. Which fraction is represented by point P on the number line?



- A. $\frac{3}{4}$
B. $\frac{5}{6}$
C. $\frac{11}{13}$
D. $\frac{11}{18}$

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.

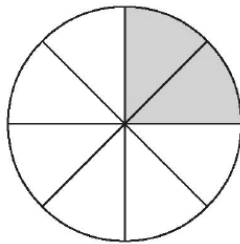
$$\begin{array}{r} 49 \\ \times 5 \\ \hline \end{array}$$

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

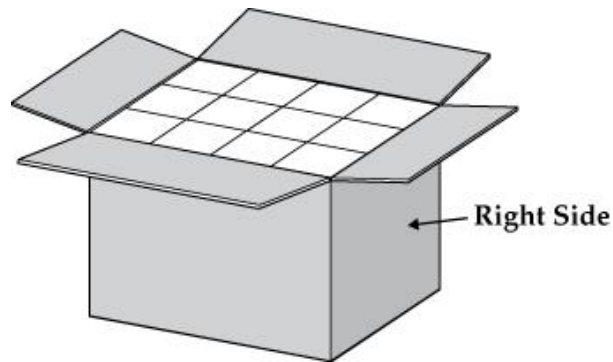
24. 0.25 (Y) Yes (N) No

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

$$1.2 + 3.98 + 0.02 + \underline{\hspace{1cm}} = 7.4$$



26. A rectangular box is filled with 36 same-sized cubes. Connor opened the top of the box and could see 12 cubes.



If Connor closes the top and then opens the right side of the box, how many cubes should he see?




27. Jana needs \$120 to buy a new bicycle. She can earn money by walking dogs in her neighborhood. She earns \$3 each time she walks a dog.

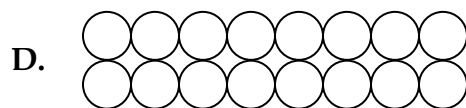
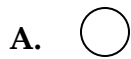
How many times will Jana have to walk a dog in order to earn \$120 ?





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

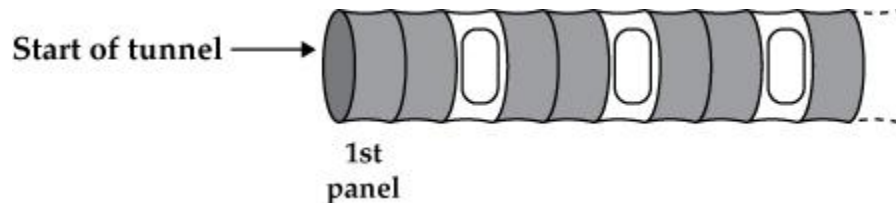
- A. 13
- B. 23
- C. 28
- D. 33

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

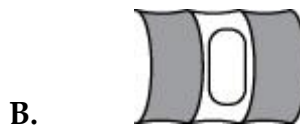
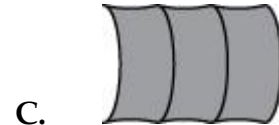
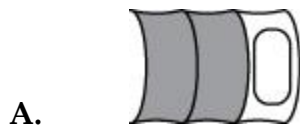


Use the following information to answer numbers 30–33.

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. Each number shown below is either a composite or prime number.

20	21	22	23	24	25	26	27	28	29
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Which of the following correctly identifies all the prime numbers listed above?

A. 21, 23, 25, 27, 29

C. 20, 22, 24, 26, 28

B. 23, 27, 29

D. 23, 29

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

39. $3.25 = \frac{3}{25}$

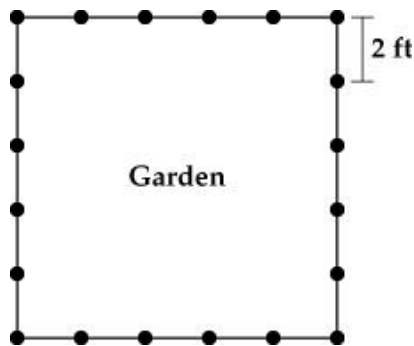
(Y) Yes (N) No

40. $1.75 = \frac{7}{4}$

(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.



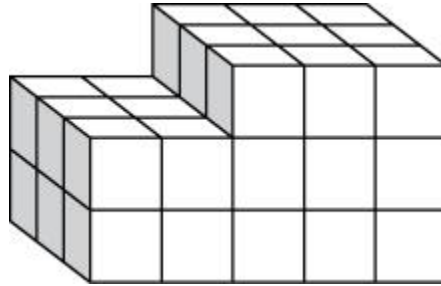
42. What is the perimeter, in feet, of the garden?



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



44. Avery made the figure shown below by stacking together some centimeter cubes.



What is the volume, in cubic centimeters, of Avery's stack of cubes?

