

# Grade 4 Form G

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Student Name

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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 number is represented by the phrase "four hundred twenty five"?



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.
  - 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.
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.

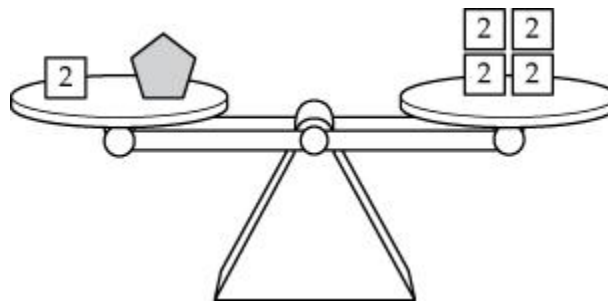
Use the blank space in this Test Booklet to do your work. Then mark your Answer Sheet for the answer you have chosen.

1. What number should go in the  to make this number sentence true?

$$174 + (526 + 218) = (174 + 526) + \boxed{\phantom{000}}$$

- A. 218
- B. 744
- C. 800
- D. 974

For numbers 2–4, 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.



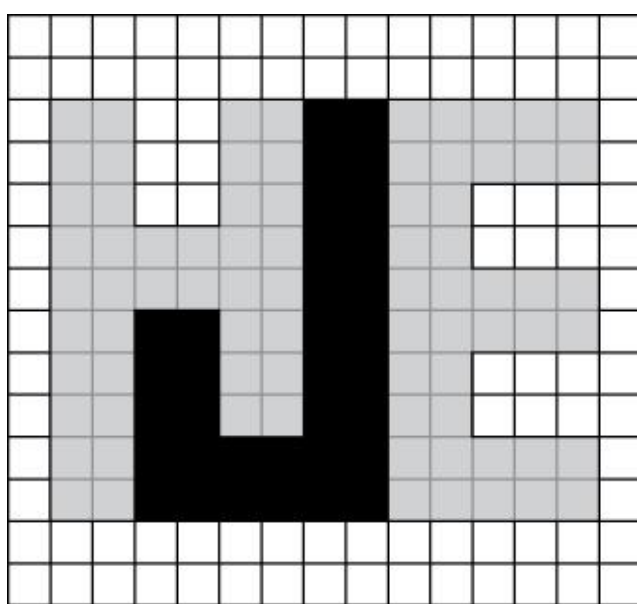
For each statement, determine whether the statement is True or False.

- 2.  $2 + \text{pentagon} = 8$  (T) True (F) False
- 3.  $\text{pentagon} - 2 = 8$  (T) True (F) False
- 4.  $2 + 2 + 2 = \text{pentagon}$  (T) True (F) False

5. The number 3.24 is equal to three and twenty-four —

- A. ones
- B. tenths
- C. hundredths
- D. thousandths

Dana's father made a metal sign of three letters (H, J, and E) to hang at the front of her school, Howard Jackson Elementary. Use the diagram of the sign below to answer numbers 6–9.



☐ is 1 square foot

- 6. The area of the "H" is greater than the area of the "E". (T) True (F) False
- 7. The area of the "H" is less than the area of the "J". (T) True (F) False
- 8. The area of the "J" is equal to the area of the "E". (T) True (F) False



9. What is the total area, in square feet, of all three letters combined?

**Go On** ➞



10. What number is equal to 2 hundreds, 11 tens, and 8 ones?

Use the following information to answer numbers 11–12.

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.



11. 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?





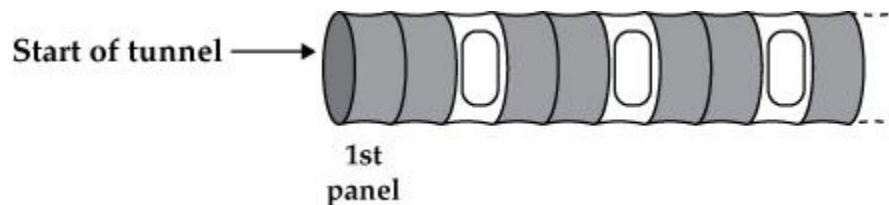
12. Which statement could represent the word problem above?

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

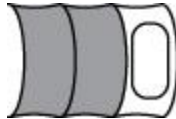


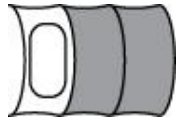
13. What is the total number of different factors for the number 24 ?

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

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.



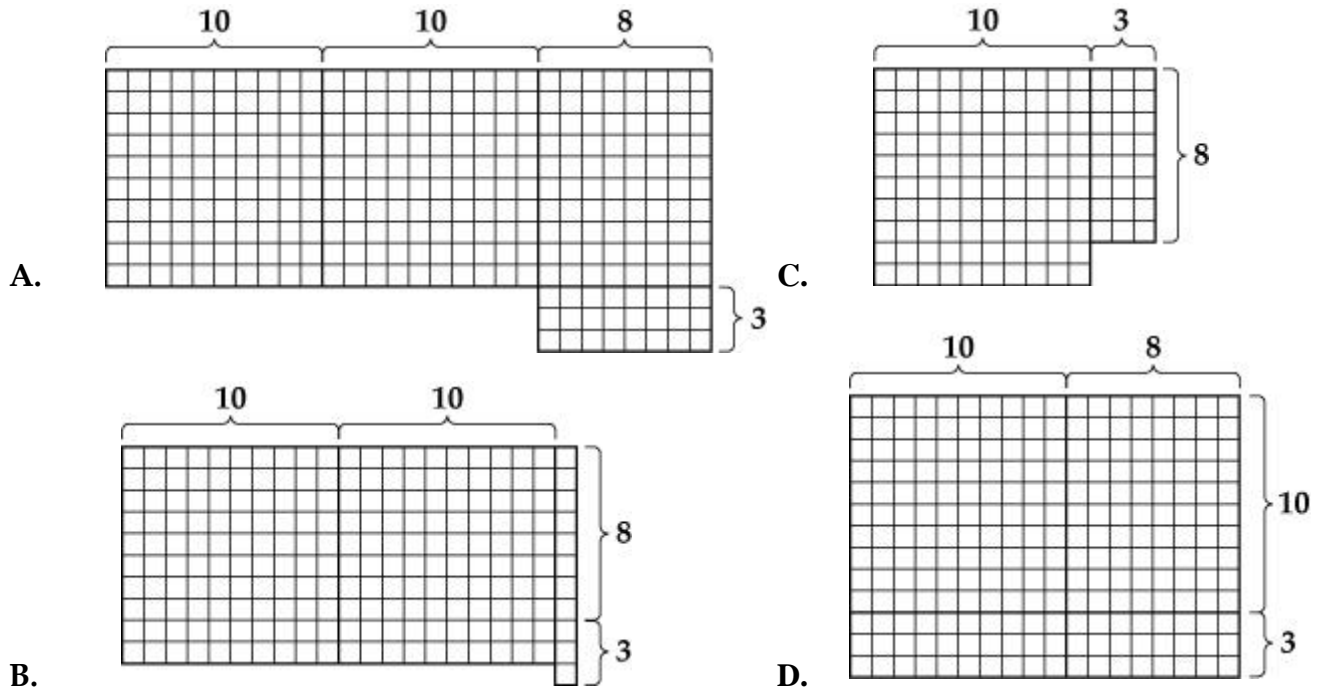
14. Which picture shows the next three panels that would continue the pattern in this tunnel?

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

**Go On** ➞

15. Which model shows a correct way to find the answer to the multiplication problem shown below?

$$\begin{array}{r} 13 \\ \times 18 \\ \hline \end{array}$$



16. Hannah has 2 large candy bars. She cuts each candy bar into fifths. How many pieces of candy bar does Hannah have now?

- A.  $\frac{1}{10}$
- B.  $\frac{2}{5}$
- C. 5
- D. 10

Use the following information to answer numbers 17–20.

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

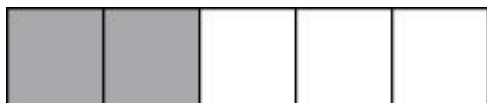
$$\begin{array}{r} 49 \\ \times 5 \\ \hline \end{array}$$

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

- |     |   |         |        |
|-----|---|---------|--------|
| 17. | Multiply 50 and 5, and then subtract 5.   | (Y) Yes | (N) No |
| 18. | Multiply 50 and 5, and then subtract 49.  | (Y) Yes | (N) No |
| 19. | Multiply 9 and 5, then multiply 4 and 5, and then add the two products together.  | (Y) Yes | (N) No |
| 20. | Multiply 40 and 5, then multiply 9 and 5, and then add the two products together. | (Y) Yes | (N) No |

For numbers 21–24, state whether or not each figure has  $\frac{2}{5}$  of its whole shaded.

21.



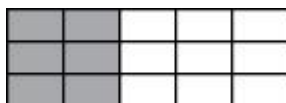
(Y) Yes    (N) No

22.



(Y) Yes    (N) No

23.



(Y) Yes    (N) No

24.



(Y) Yes    (N) No


**Go On** ➞


Use the following information to answer numbers 25–28.

Carly, Brian, and Juan all have some pennies.

- Carly has  $p$  pennies.
- Brian has 9 more pennies than Carly.
- Juan has 4 more pennies than Carly.

 25. If  $p = 8$ , how many pennies does Brian have?

 26. If Brian has 20 pennies, what number is represented by  $p$ ?

 27. If Juan has 25 pennies, how many pennies does Brian have?


28. Which expression represents the number of pennies that Carly, Brian, and Juan have all together?

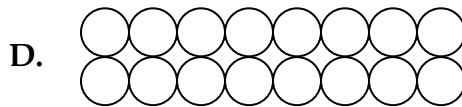
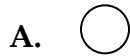
- A.  $13 \times p$
- B.  $94 \times p$
- C.  $p + 13$
- D.  $p + (p + 9) + (p + 4)$

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

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



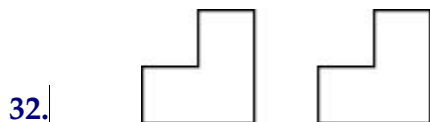
30.  represents  $\frac{1}{4}$  of a set of circles. Which of the following could represent the whole set of circles?



Identify whether each pair of congruent shapes shown in numbers 32–35 could be used to make a rectangle by joining them together without any overlapping.



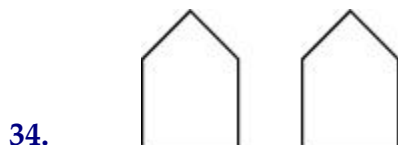
(Y) Yes (N) No



(Y) Yes (N) No



(Y) Yes (N) No



(Y) Yes (N) No

35. Jackie solved a multiplication problem as shown below. There are errors in her work.

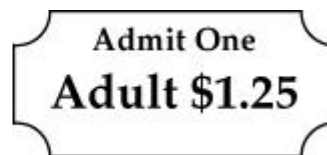
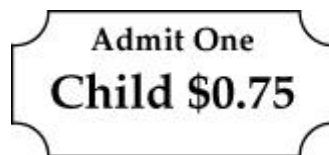
$$\begin{array}{r}
 2 \quad \text{Row 1} \\
 35 \\
 \times 14 \\
 \hline
 140 \quad \text{Row 2} \\
 + 55 \quad \text{Row 3} \\
 \hline
 195 \quad \text{Row 4}
 \end{array}$$

In which row is an error first recorded?

- A. Row 1
- B. Row 2
- C. Row 3
- D. Row 4

Use the following information to answer numbers 36–38.

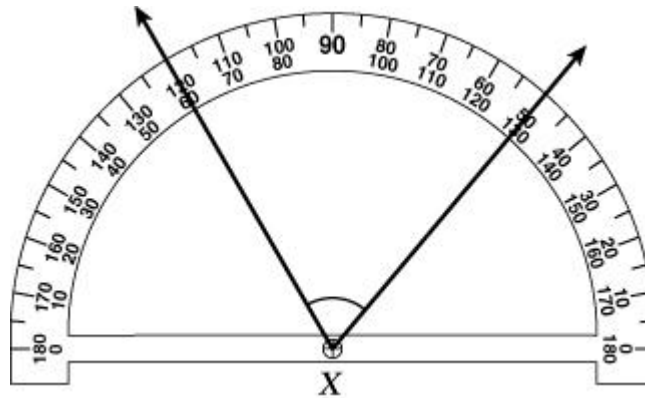
Madison is planning to go to the museum. Prices for museum tickets are shown below.



Madison claims that each combination of tickets listed below can be purchased with \$5.00 or less. For each combination, determine whether her claim is True or False.

- |     |                     |          |           |
|-----|---------------------|----------|-----------|
| 36. | 6 child and 4 adult | (T) True | (F) False |
| 37. | 3 child and 2 adult | (T) True | (F) False |
| 38. | 2 child and 3 adult | (T) True | (F) False |

39. Angle X is shown in the picture below.



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

- A.  $50^\circ$
- B.  $60^\circ$
- C.  $70^\circ$
- D.  $120^\circ$

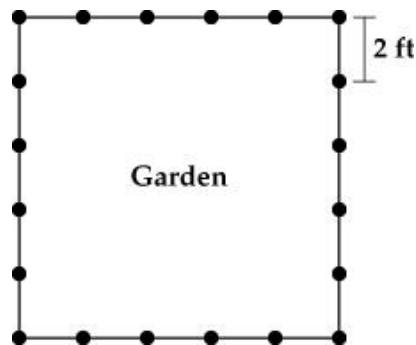
For numbers 42–43, determine whether each equation is true.

- |     |                      |         |        |
|-----|----------------------|---------|--------|
| 40. | $0.75 = \frac{3}{4}$ | (Y) Yes | (N) No |
| 41. | $1.4 = 1\frac{4}{5}$ | (Y) Yes | (N) No |

**Go On** ➡

Use the information below to answer numbers 42–44.

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



42. 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.



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



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

