

# Grade 4 Form H

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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”?

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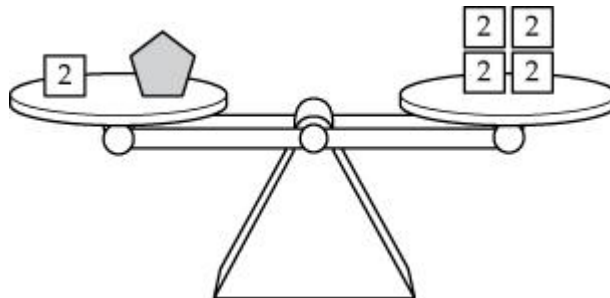
 This symbol appears next to questions that require you to fill in your answers on a grid on the Answer Sheet. Directions for completing the Response Grid:

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. Maya has 3 boxes of candy. There are 12 gumdrops and 15 chocolates in each box. Which expression represents the total number of chocolates that Maya has?
- A.  $3 \times 12$   
B.  $3 \times 15$   
C.  $3(12 + 15)$   
D.  $3 + 12 + 15$

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

**Go On** ➡

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

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

For numbers 6–8, the shapes  and  represent different numbers. Without calculating the values, determine whether each statement is True or False.

6. If  $235 + 104 = \blacksquare$ , then  $\blacksquare = 235 + 104$ . (T) True (F) False

7. If  $340 + 815 = \triangle$ , then  $815 = 340 + \triangle$ . (T) True (F) False

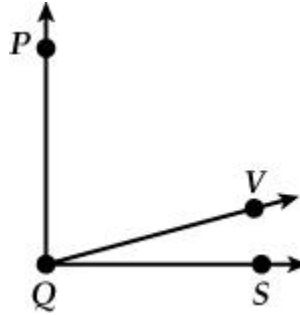
8. If  $\blacksquare + 182 = 475$ , then  $\blacksquare + 475 = 182$ . (T) True (F) False

**Go On** ➡



9.

In the diagram below,  $\angle PQS$  is a right angle. The measure of  $\angle PQV$  is 75 degrees.



Based on this information, what is the measure, in degrees, of  $\angle VQS$  ?



10.

What number is equal to 5 hundreds, 4 tens, and 23 ones?

**Go On** ➞

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 =  $24 \div 2$

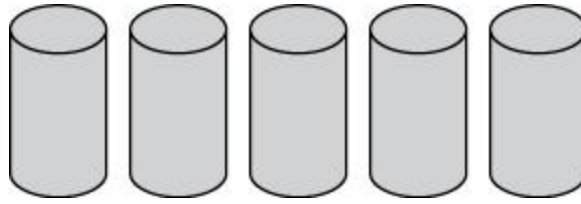
13. What is the total number of different factors for the number 24 ?

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

**Go On** ➡

Use the following information to answer numbers 14–16.

Alex has 5 full cans of paint.



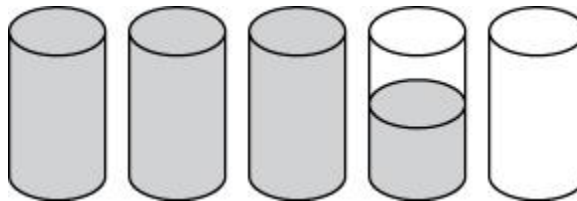
14. If only 2 cans of Alex's paint are red, what fraction of his paint is red?

- A.  $\frac{2}{3}$
- B.  $\frac{2}{5}$
- C. 2
- D. 3

15. If Alex uses  $\frac{1}{5}$  of his paint, what fraction of his paint will be left?

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

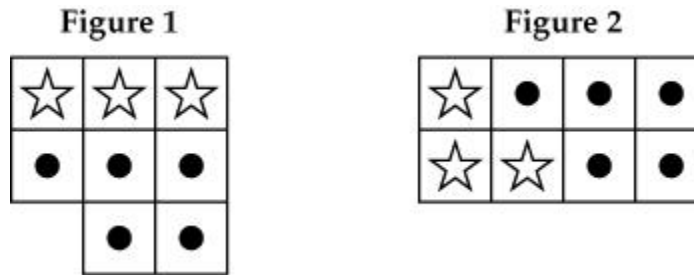
16. If Alex uses  $1\frac{1}{2}$  cans of his paint on a school project, what fraction of his total amount of paint will be left?



- A.  $\frac{4}{10}$
- B.  $\frac{3}{5}$
- C.  $\frac{7}{10}$
- D.  $\frac{4}{5}$

**Go On** ➞

17. Maria moved the square units with a ☆ in Figure 1 to form Figure 2.



Which statement below must be true?

- A. The area of Figure 1 cannot be determined because it is not complete.
- B. The area of Figure 2 is greater than the area of Figure 1.
- C. The area of Figure 2 is less than the area of Figure 1.
- D. The area of Figure 1 is equal to the area of Figure 2.

Use the following information to answer numbers 18–21.

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

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

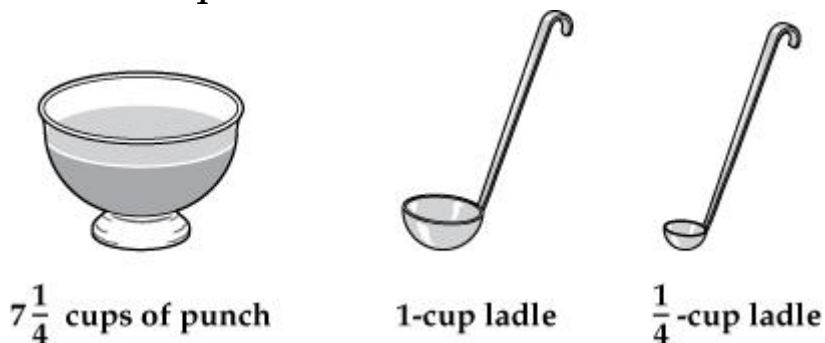
Which of the following methods would result in a correct answer for this problem?

- |     |   |         |        |
|-----|---|---------|--------|
| 18. | Multiply 50 and 5, and then subtract 5.   | (Y) Yes | (N) No |
| 19. | Multiply 50 and 5, and then subtract 49.  | (Y) Yes | (N) No |
| 20. | Multiply 9 and 5, then multiply 4 and 5, and then add the two products together.  | (Y) Yes | (N) No |
| 21. | Multiply 40 and 5, then multiply 9 and 5, and then add the two products together. | (Y) Yes | (N) No |

**Go On ⇨**

Use the information below to answer numbers 22–25.

Gil is serving punch out of a bowl using a 1-cup ladle and a  $\frac{1}{4}$ -cup ladle. Before he begins serving, the bowl is filled with  $7\frac{1}{4}$  cups of punch.



Identify the combinations of servings that would completely empty the punch bowl.

22.  $1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + \frac{1}{4} \text{ cup} + \frac{1}{4} \text{ cup} + \frac{1}{4} \text{ cup} + \frac{1}{4} \text{ cup} + \frac{1}{4} \text{ cup}$   
(Y) Yes (N) No
23.  $1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + \frac{1}{4} \text{ cup} + \frac{1}{4} \text{ cup} + \frac{1}{4} \text{ cup} + \frac{1}{4} \text{ cup}$   
(Y) Yes (N) No
24.  $1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + \frac{1}{4} \text{ cup} + \frac{1}{4} \text{ cup}$   
(Y) Yes (N) No
25.  $1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + 1 \text{ cup} + \frac{1}{4} \text{ cup}$   
(Y) Yes (N) No



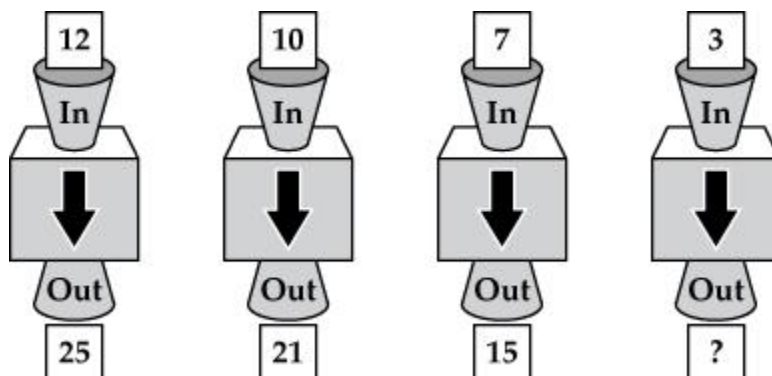
26. A square has a perimeter of 24 inches. What is its area, in square inches?

**Go On** ➞



 27.

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 3 is put in?


28. Which decimal number has a value closest to  $\frac{3}{4}$ ?


- A. 0.34
- B. 0.8
- C. 3.4
- D. 4.3

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

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

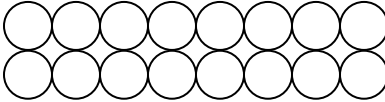
**Go On** ➞

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

A. 

C. 

B. 

D. 

31. Which fraction has a value closest to 0.5 ?

A.  $\frac{1}{3}$

B.  $\frac{2}{5}$

C.  $\frac{3}{4}$

D.  $\frac{4}{5}$

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

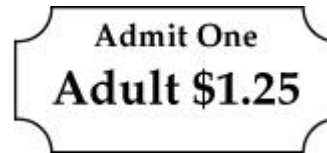
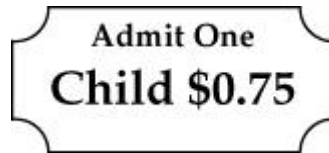
$$\begin{array}{r}
 2 \quad \text{Row 1} \\
 35 \\
 \times 14 \\
 \hline
 140 \quad \text{Row 2} \\
 + 55 \quad \text{Row 3} \\
 \hline
 195 \quad \text{Row 4}
 \end{array}$$

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 33–35.

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.

- |     |                     |          |           |
|-----|---------------------|----------|-----------|
| 33. | 6 child and 4 adult | (T) True | (F) False |
| 34. | 3 child and 2 adult | (T) True | (F) False |
| 35. | 2 child and 3 adult | (T) True | (F) False |

36. Which situation below can be represented by  $30 - n = 6$ ?

- A. Carter had 30 crayons. He gave some crayons to his sister, leaving him only 6 crayons. How many crayons did Carter give his sister?
- B. Carter had 30 crayons. This amount was 6 times as many crayons as his friend had. How many crayons did his friend have?
- C. Carter had 30 crayons. He received 6 more crayons from his brother. How many crayons did Carter have then?
- D. Carter had 30 crayons. He shared them equally among 6 friends. How many crayons did each friend get?

**Go On ➞**

For numbers 37–38, determine whether each equation is true.

37.  $0.75 = \frac{3}{4}$

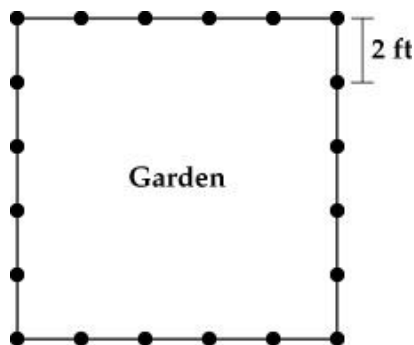
(Y) Yes (N) No

38.  $1.4 = 1\frac{4}{5}$

(Y) Yes (N) No

Use the information below to answer numbers 39–41.

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



39. 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.



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



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

