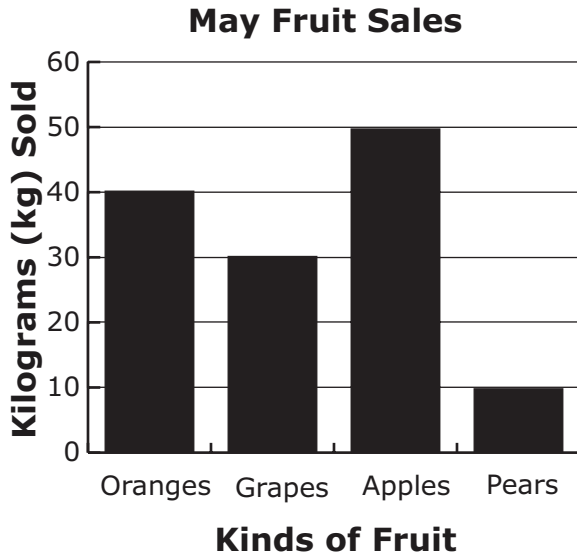


- 1 Write the number in the blank.



Amount of oranges sold = \_\_\_\_\_ kg

- 2 9,309,552

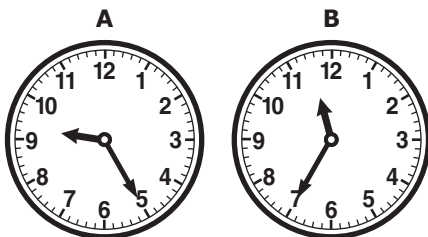
Which digit is in the millions place?

\_\_\_\_\_

Which digit is in the thousands place?

\_\_\_\_\_

- 3 Maria started cycling at time A. She stopped cycling at time B.



Maria cycled for a total of \_\_\_\_\_ hours and \_\_\_\_\_ minutes.

- 4 Solve for the value of  $p$ .

$$3 \times p = 27$$

\_\_\_\_\_

- 5 Write  $<$ ,  $>$ , or  $=$  in each blank.

$$\frac{2}{7} \quad \frac{5}{6}$$

$$\frac{1}{5} \quad \frac{3}{4}$$

- 6 Nelson started driving to the airport when his watch showed the time in figure A and reached the airport when the watch showed the time in figure B.



Total time taken by Nelson to reach the airport is \_\_\_\_\_ hours and \_\_\_\_\_ minutes.

- 7 Write the number in the blank.

Three million, six hundred fifty-nine thousand, two hundred sixty

\_\_\_\_\_

- 8** Solve for the value of  $m$ .

$$8 \times m = 72$$

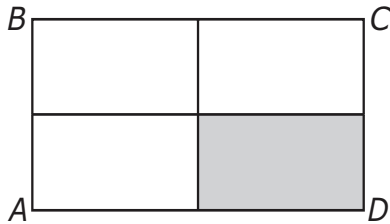
\_\_\_\_\_

- 9** Find the mean of these numbers.

17, 11, 8, 9, 20

Mean = \_\_\_\_\_

**10**



The shaded area is what fraction of rectangle  $ABCD$ ?

\_\_\_\_\_

- 11** Patrick visits 15 houses every day in his neighborhood to conduct a survey. If there are 270 houses in his neighborhood, how many days will it take him to complete the survey?

\_\_\_\_\_

- 12** Mandy's second semester quiz scores are as follows:

65 73 81 65 76

What is the mean? \_\_\_\_\_

What is the median? \_\_\_\_\_

What is the mode? \_\_\_\_\_

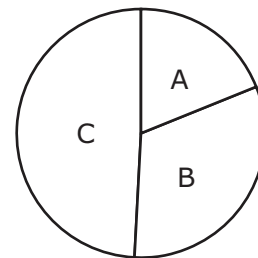
- 13** Harper went to a store and bought a box of candy for \$3.30, a comic book for \$7.05, and a chocolate bar for \$2.10. Write the estimated total he spent in the blank. Estimate to the nearest dollar.

\$ \_\_\_\_\_

- 14** There are 4 flavors of ice cream available at an ice cream shop. This shop also has 3 different kinds of cones (waffle, sugar, and plain). How many different combinations of 1 cone and 1 flavor of ice cream can you have?

\_\_\_\_\_

- 15** Out of 100 students, 49 students like candy bars, 32 students like vanilla ice cream, and the rest like chocolate ice cream. Which part of the circle graph shows the fraction of students who like candy bars?



\_\_\_\_\_

**16** Round to the nearest ten-thousands place:  
83,987

\_\_\_\_\_

**17** Write  $<$ ,  $>$ , or  $=$  in each blank.

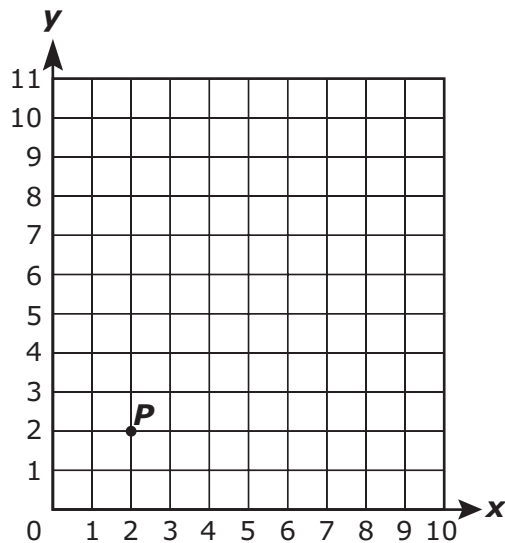
$\frac{1}{4}$  \_\_\_\_\_  $\frac{3}{6}$  \_\_\_\_\_  $\frac{2}{4}$

**18** In a survey, 351 students were asked whether lemonade should be added to the school menu. One-third of the students replied yes.

Write down the number of students who replied yes.

\_\_\_\_\_

**19** Use the graph to answer the question.



A snail starts moving from point  $P$ . It moves 5 units in the positive  $x$  direction and 5 units in the positive  $y$  direction to reach point  $Q$ . The coordinates of  $Q$  are (\_\_\_\_\_, \_\_\_\_\_).

**20** Complete the sequence.

2, 8, 14, 20, \_\_\_\_\_, \_\_\_\_\_

**21** 86,715.627

Which digit is in the ten-thousands place?

\_\_\_\_\_

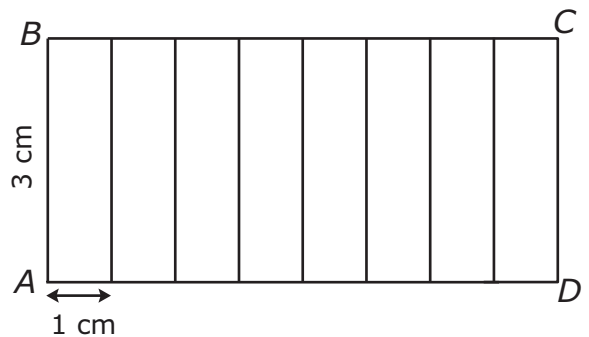
Which digit is in the hundredths place?

\_\_\_\_\_

**22** Last winter, a store sold 480 coats in 4 months. This winter, the store plans to sell coats for 3 months. Based on the average number of coats sold each month last winter, how many total coats should the store plan to sell this winter?

\_\_\_\_\_

**23** Rectangle  $ABCD$  is made up of 8 smaller rectangles of equal size.



Note:  $A = l \times w$

Area of rectangle  $ABCD =$  \_\_\_\_\_  $\text{cm}^2$

- 24** Round to the nearest thousands place:

284,687

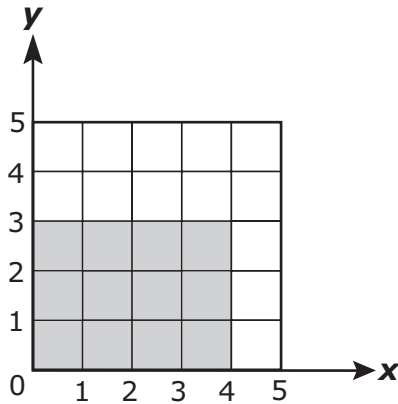
\_\_\_\_\_

- 25** A house has 48 steps between the first floor and the third floor. Each step is 5 inches (in.) high. What is the distance in feet (ft) between the first floor and the third floor?

Note: 12 in. = 1 ft

\_\_\_\_\_ ft

- 26** In the blank, write the perimeter of the shaded region.



Note:  $P = 2 \times (l + w)$

\_\_\_\_\_ units

- 27** In the blank, write the number that shows "5 times  $n$ " if  $n = 12$ .

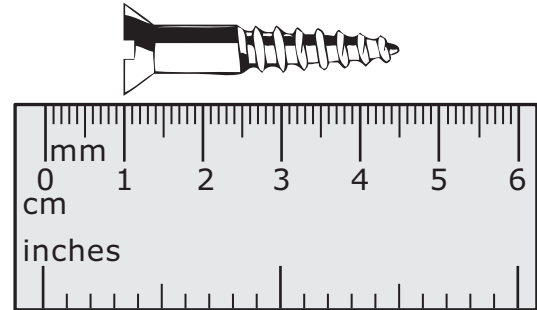
\_\_\_\_\_

- 28** In the blank, write the greatest common factor of the two numbers.

24, 30

\_\_\_\_\_

- 29** Write the appropriate unit in the blank.



The length of the screw is 3.5 \_\_\_\_\_.

- 30** Simplify the expression.

$$5 \times (6 + 3) - (9 - 2)$$

\_\_\_\_\_

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. If any part of a multi-part question is incorrect, the score is zero.

### Grade 5, Probe 4 Answer Key

Item No.	Answer	Correct	Incorrect
1.	40	1	0
2.	9, 9	1	0
3.	2, 10	1	0
4.	9	1	0
5.	<, <	1	0
6.	2, 15	1	0
7.	3,659,260	1	0
8.	9	1	0
9.	13	2	0
10.	$\frac{1}{4}$	1	0
11.	18	1	0
12.	72, 73, 65	3	0
13.	12	2	0
14.	12	1	0
15.	C	2	0
16.	80,000	1	0
17.	<, =	1	0
18.	117	2	0
19.	7, 7	2	0
20.	26, 32	2	0
21.	8, 2	2	0
22.	360	2	0
23.	24	2	0
24.	285,000	2	0
25.	20	2	0
26.	14	3	0
27.	60	2	0
28.	6	3	0
29.	centimeters or cm	2	0
30.	38	3	0

Total