SC Math Standards: Grade 5 - Sample Questions

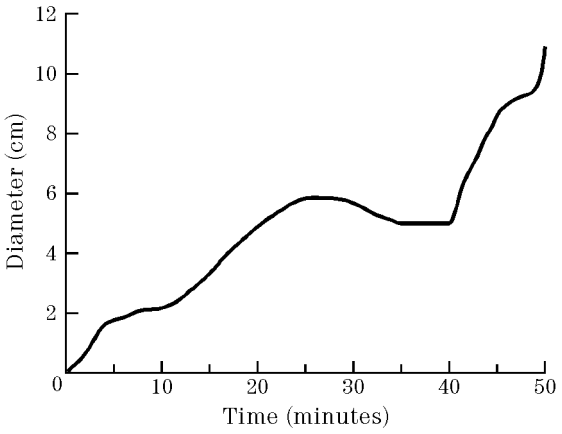
Name: _____ **Date:** _____

1. What is the most repeated number in the set?

   36, 17, 48, 32, 17, 48, 56, 17, 81, 48, 32, 48, 25, 37

   A. 17 B. 32 C. 48 D. 81

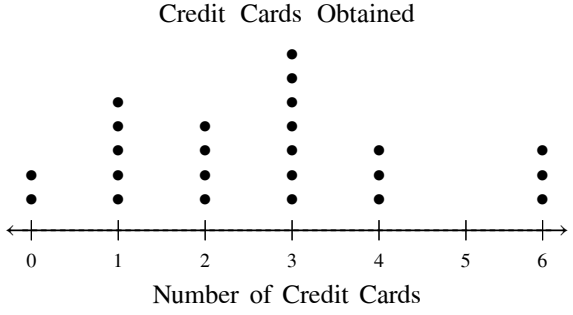
2. For a robin, the process of building a nest can take anywhere from 2 to 20 days. Below is a graph of the progress of a robin as it makes the foundation of its nest.



   How much time does it take for the nest to reach a diameter of 8 cm?

   A. 15 min B. 25 min C. 45 min D. 50 min

3. The dot plot shows the number of credit cards obtained by a group of adults.

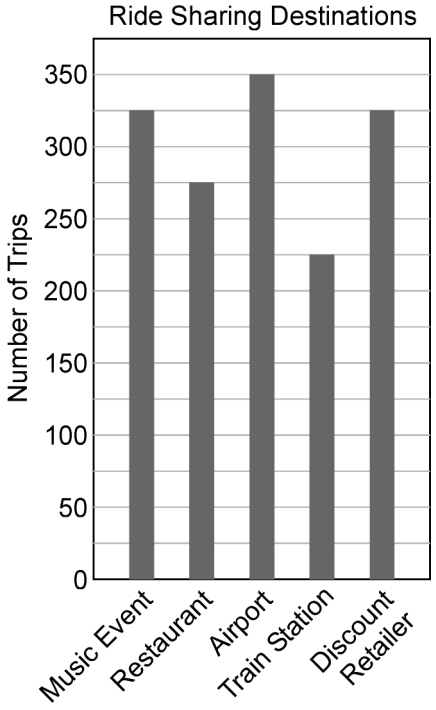


   What fraction of the adults in the group have three or fewer credit cards?

   A. $\frac{7}{24}$ B. $\frac{1}{4}$ C. $\frac{1}{2}$ D. $\frac{3}{4}$

4. A ride sharing service uses an online platform to connect passengers and local drivers. The drivers provide door-to-door transport to destinations such as transit hubs and nearby shopping areas.

   The graph shows the number of trips made by a ride sharing service to five different destinations during one month.



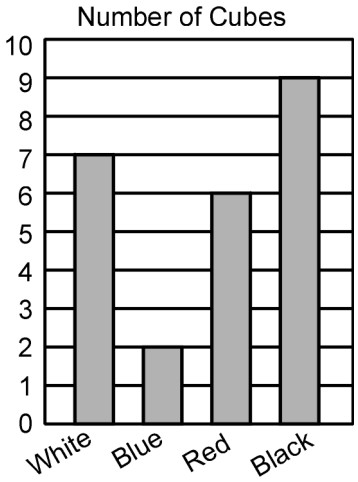
   Based on the graph, how many trips were made to an airport, train station, and discount retailer?

5. In the table, indicate whether each fraction is less than or greater than $\frac{5}{2}$.

Fraction	Less than $\frac{5}{2}$	Greater than $\frac{5}{2}$
$2\frac{3}{10}$	❍	❍
$2\frac{12}{20}$	❍	❍
$2\frac{4}{5}$	❍	❍
$2\frac{15}{100}$	❍	❍

6. Use the information below to answer the following question(s).

There is a bag that only contains white, blue, red, and black cubes. Andres selects a cube and then returns it to the bag. He repeats the process many times. The results are recorded in the bar graph below.

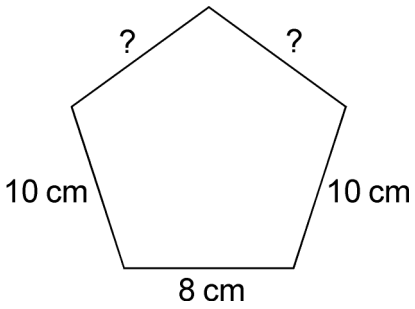


What is the likelihood of picking a green cube from the bag?

A. somewhat likely
B. impossible
C. very likely
D. equally likely

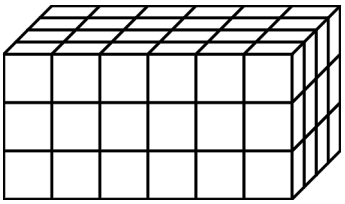
7. A pentagon has a perimeter of 41 centimeters. The length of 3 of the sides is 28 centimeters and the length of the other two sides is equal. What is the length of one of the remaining sides?

Use the following diagram.



A. 6.5 centimeters
B. 13 centimeters
C. 13.5 centimeters
D. 28 centimeters

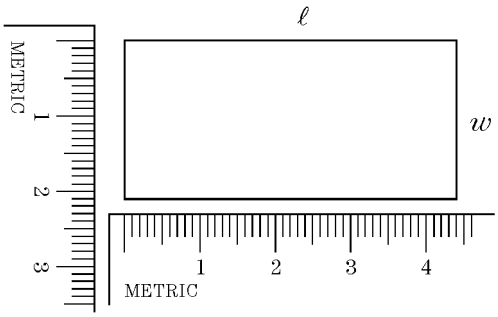
8. Blake made a jewelry box for his mother. He modeled its dimensions using the rectangular prism below.



The rectangular prism is made out of 1-inch cubes. What is the volume of Blake's jewelry box?

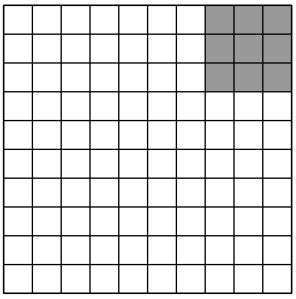
A. 50 cubic inches
B. 60 cubic inches
C. 72 cubic inches
D. 80 cubic inches

9. The length of the rectangle shown appears to be _____.



A. 2.0 cm
B. 3.8 cm
C. 4.4 cm
D. 4.9 cm

10. What part of the model is shaded?



A. 0.03
B. 0.09
C. 0.30
D. 0.90

11. The laboratory technician transferred the 0.012 mL of bacteria from one test tube to another. He had to be careful not to contaminate anything around him. How would the amount he transferred be read aloud?

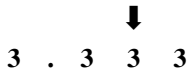
A. Zero and twelve tenths

B. Zero and twelve hundredths

C. Zero and twelve thousands

D. Zero and twelve thousandths

12. Linellen drew an arrow to one digit.



Which is true?

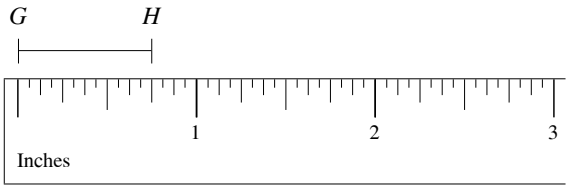
A. The digit is the same value as the digit to the right.

B. The digit is 10 times the digit to the right.

C. The digit is 100 times the digit to the right.

D. The digit is 1000 times the digit to the right.

13. Find the measure of $\overline{GH}$.



A. $\frac{1}{4}$ in. B. $\frac{3}{4}$ in. C. 1 in. D. $1\frac{1}{2}$ in.

14. The expression 10^5 is equivalent to _____.

A. 10,000 B. 100,000

C. 1,000,000 D. 10,000,000

15. While cleaning an attic, Edgar discovered a collection of old comic books.

Part A

The collection was stored in 12 boxes that each contained an equal number of comic books.

If there are 564 comic books in the collection, how many were stored in each box?

Part B

Fortunately, Edgar sold his entire comic book collection. He sold an equal number of comic books to each of 4 different collectors.

Mark the number that correctly completes the sentence.

Edgar sold 132 / 141 / 151 / 193 comic books to each collector.

16. Match the number pairs on the left with their greatest common factor on the right.

9 and 27	14
14 and 49	9
27 and 36	7
28 and 42	3

17. Mandar studied two products on the flashcards.

F	G
$\frac{2}{3} \times 15$	$\frac{4}{3} \times 15$

Without doing the math, compare the products.

A. G equals F

B. G is twice as large as F

C. G is half as large as F

D. G is less than F

18. Mrs. Wing is a waitress at a truck stop. Yesterday, she sold 18 liters of juice. Today she wants to sell more juice.

$\frac{2}{6}$	$\frac{6}{6}$	$\frac{5}{6}$	$\frac{9}{6}$

By which factor should Mrs. Wing increase the juice sales?

A. $\frac{2}{6}$ B. $\frac{6}{6}$ C. $\frac{5}{6}$ D. $\frac{9}{6}$

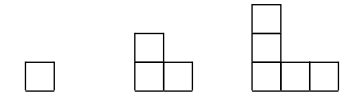
19. The restaurant made 6 bowls of cinnamon roll dough. Each cinnamon roll requires $\frac{1}{8}$ bowl of dough.

$6 \div \frac{1}{8} = \square$

How many cinnamon rolls can be made from the 6 bowls of dough?

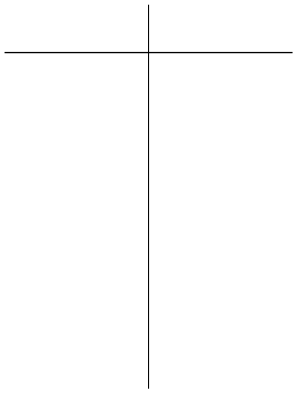
A. $\frac{3}{4}$ B. 48 C. 8 D. $\frac{1}{48}$

20. a) Randy created a pattern with tiles. Complete the pattern.



Step 1 Step 2 Step 3 Step 4 Step 5 Step 6

b) Record the pattern in the table below. Write each step number in the left column and the corresponding number of tiles in the right column. Be sure to label the columns.



c) Explain how you completed the pattern and state at least one rule for the information in the table.

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1.
Answer: C
Objective: 5.DPSR.1.1
Points: 1

2.
Answer: C
Objective: 5.DPSR.1.2
Points: 1

3.
Answer: D
Objective: 5.DPSR.1.2
Points: 1

4.
Answer: 900
Objective: 5.DPSR.1.2
Points: 1

5.
Answer: [1],[2],[2],[1]
Objective: 5.NR.2.1
Points: 1

6.
Answer: B
Objective: 5.DPSR.1.3
Points: 1

7.
Answer: A
Objective: 5.04H
Points: 1

8.
Answer: C
Objective: 5.MGSR.1.2
Points: 1

9.
Answer: C
Objective: 5.MGSR.2.2
Points: 1

10.
Answer: B
Objective: 5.NR.1.1
Points: 1

11.
Answer: D
Objective: 5.NR.1.1
Points: 1

12.
Answer: B
Objective: 5.NR.1.2
Points: 1

13.
Answer: B
Objective: 5.MGSR.2.2
Points: 1

14.
Answer: B
Objective: 5.NR.1.4
Points: 1

15.
Answer: 0
Objective: 5.PAFR.1.2
Points: 1

16.
Answer: A2,B3,C2,D1
Objective: 5.PAFR.3.2
Points: 1

17.
Answer: B
Objective: 5.PAFR.2.2
Points: 1

18.
Answer: D
Objective: 5.PAFR.2.2
Points: 1

19.
Answer: B
Objective: 5.PAFR.2.3
Points: 1

20.
Answer: [graph]; ; each step adds 2 more squares to the pattern.

Step	Tiles
1	1
2	3
3	5
4	7
5	9
6	11

Objective: 5.PAFR.3.3
Points: 1