FCPS Grade 6 Topic 1 Online enVision District Common Assessment *(Galileo Version)* **revised 9/2021**

Name: _____

Chris and Jeff sold 15.5 pounds of trail mix. They sold the trail mix for $3.98 per pound.
How much money did they collect?

1. Part A
Use the drop-down menu to choose the operation you need to solve the problem.

15.5 [Choose...] 3.98

a. ÷
b. +
c. x
d. -

2. Part B
Find the **total** amount of money they collected. Enter your answer in the box.

$ [ ]

a. $19.48 b. $61.69 c. $11.52 d. $59.70

3.
Ilana needs *d* more dollars to buy a new scrapbook that costs $8.35. She has $4.88.
Solve the equation $4.88+d=$8.35 to find how much more money Ilana needs.

A. *d* = $3.57

B. *d* = $3.47

C. *d* = $3.42

D. *d* = $4.12

4.
A city has 1,242 law enforcement officers in the police department. If the officers are divided equally into 18 groups, how many officers will be in each group?

A. 60 officers

B. 68 officers

C. 69 officers

D. 70 officers

5.
Russ has a car that averages 9.8 miles per gallon. Mike's car averages 39.2 miles per gallon. How many times more miles per gallon does Mike's car average than Russ's car?

A. 2 times

B. 3 times

C. 4 times

D. 5 times

6.
What is the area of a rectangle with length $\frac{1}{12}$ foot and width $\frac{3}{4}$ foot?

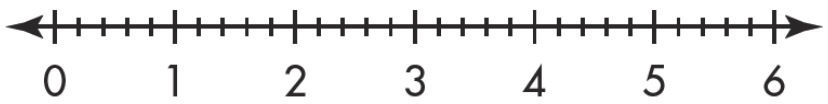
A. $\frac{1}{16}$ ft^2

B. $\frac{1}{12}$ ft^2

C. $\frac{2}{3}$ ft^2

D. $\frac{5}{6}$ ft^2

7.
Raven is making pillows. Each pillow requires $\frac{3}{5}$ yard of fabric. Raven has 6 yards of fabric. Use the number line to find $6 \div \frac{3}{5}$, the number of pillows Raven can make.



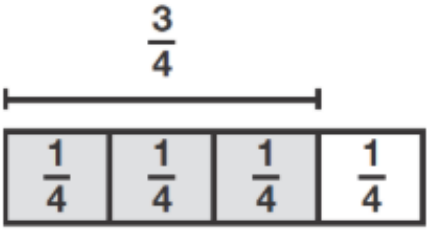
A. 10 pillows

B. 6 pillows

C. 5 pillows

D. 3 pillows

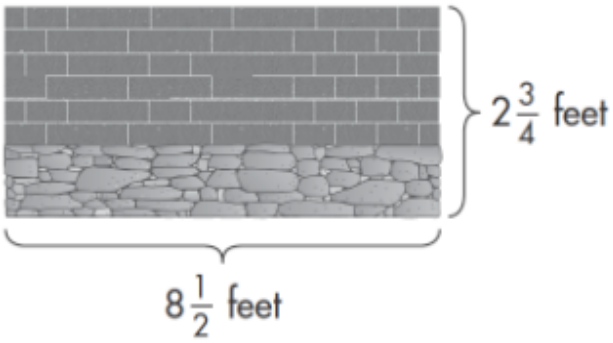
8.
Find the quotient. Use the diagram to help.
Enter your answer in the box.



$\frac{3}{4} \div \frac{1}{4} =$ ☐

A. 3 B. 4 C. $\frac{3}{8}$ D. $\frac{3}{16}$

Employees of a landscaping company built a retaining wall. They used brick to make the top $\frac{2}{3}$ of the wall.



9. **Part A**
Which equation represents the **height** of the brick part of the wall?

A. $\frac{2}{3} \times 2\frac{3}{4} = 1\frac{5}{6}$ B. $\frac{2}{3} \times 2\frac{3}{4} = 2\frac{1}{12}$

C. $\frac{2}{3} \times 8\frac{1}{2} = 5\frac{2}{3}$ D. $\frac{2}{3} \times 8\frac{1}{2} = 5\frac{5}{6}$

10. **Part B**
Which is the **best estimate** for the **area** of the entire wall?

A. 16 sq ft B. 27 sq ft

C. 32 sq ft D. 40 sq ft

11. Part C
Which equation represents the area of the entire wall?

A. $8\frac{1}{2} \times 2\frac{3}{4} = 16\frac{3}{8}$

B. $8\frac{1}{2} \times 2\frac{3}{4} = 16\frac{1}{2}$

C. $8\frac{1}{2} \times 2\frac{3}{4} = 23\frac{3}{8}$

D. $8\frac{1}{2} \times 2\frac{3}{4} = 31\frac{1}{6}$

12. Part D
Which of the following explains whether the answer in **Part C (above)** is reasonable?

A. Since $16\frac{3}{8}$ is close to 16, the answer is reasonable.

B. Since $16\frac{1}{2}$ is close to 16, the answer is reasonable.

C. Since $23\frac{3}{8}$ is close to 27, the answer is reasonable.

D. Since $31\frac{1}{6}$ is close to 32, the answer is reasonable.

13.
Which expression has the same value as $3 \div \frac{5}{9}$?

A. $3 \times \frac{5}{9}$

B. $\frac{1}{3} \div \frac{5}{9}$

C. $3 \div \frac{9}{5}$

D. $3 \times \frac{9}{5}$

Holly is displaying a postcard collection on a bulletin board that is $35\frac{3}{4}$ inches wide.

Each postcard is $5\frac{7}{8}$ inches wide.

Part A

Use the drop-down menus to explain how to find the best estimate for the number of postcards she can display in each row of the bulletin board.

14.

Use [Choose...] numbers that are close to the actual numbers.

a. Odd
b. Even
c. Rounded
d. Compatible

15.

Choose [Choose...] for $35\frac{3}{4}$ and [Choose...] for $5\frac{7}{8}$ because they divide evenly.

a. 30 and 6
b. 36 and 6
c. 40 and 6
d. 35 and 6

Part B

16.

Choose the ***best*** estimate for the number of postcards Holly can display in each row of the bulletin board.

A. 5 postcards
B. 6 postcards
C. 7 postcards
D. 8 postcards

17.

A model train is $15\frac{3}{4}$ inches long. Each car in this train is $2\frac{5}{8}$ inches in length.

How many cars are in the train?

A. 3 cars
B. 4 cars
C. 5 cars
D. 6 cars