

Name: _____

Class/Period: _____

Assignment: 6th Grade Break Work

Teacher: Nowich

1 A group of students play sports after school.

- 12 students play soccer
- 8 students play tennis

PART A:

What is the ratio of students who play soccer to students who play tennis?

PART B:

What is the ratio of students who play tennis to students who play a sport?

Answer

2 **Answer** _____

A store sells cans of tomatoes priced as shown.

Canned Tomatoes

Size	Cost
10 ounces	\$0.89
15 ounces	\$1.29
18 ounces	\$2.26
32 ounces	\$3.39

Which size can of tomatoes has the lowest cost per ounce?

- 1 10 ounces
- 2 15 ounces
- 3 18 ounces
- 4 32 ounces

3 Answer _____

A set of stickers contains 4 hearts for every 6 stars. Which choice contains an equivalent ratio of hearts to stars?

- 1 6 hearts to 9 stars
- 2 2 hearts to 4 stars
- 3 1 heart to 3 stars
- 4 8 hearts to 10 stars

4 Answer _____

In the table, the ratio of y to x is constant.

x	y
2	5
4	10
10	?
18	45

What is the value of the missing number?

- 1 15
- 2 20
- 3 25
- 4 30

5 A factory adds three red drops and two blue drops of coloring to white paint to make each pint of purple paint. The factory will make 50 gallons of this purple paint. How many drops of red and blue coloring will the factory need in the 50-gallon batch of purple paint?

Show your work.

Answer

6 Answer _____

Carol has $1\frac{5}{8}$ cups of yogurt to make smoothies. Each smoothie uses $\frac{1}{3}$ cup of yogurt. What is the maximum number of smoothies that Carol can make with the yogurt?

- 1 1
- 2 4
- 3 5
- 4 7

7 Answer _____

What is the greatest common factor of 36 and 90?

- 1 6
- 2 18
- 3 36
- 4 180

8 Answer _____

Two whole numbers have a least common multiple of 48.

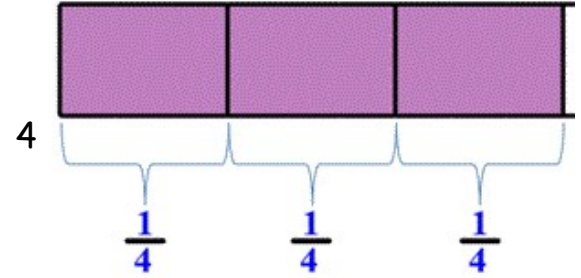
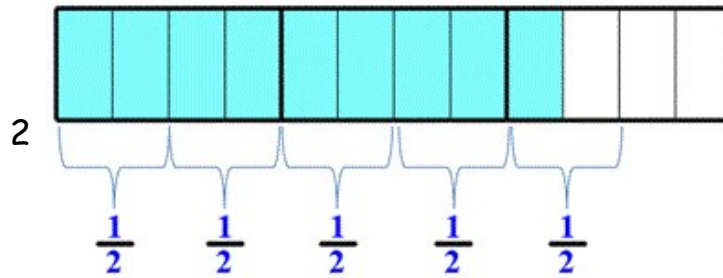
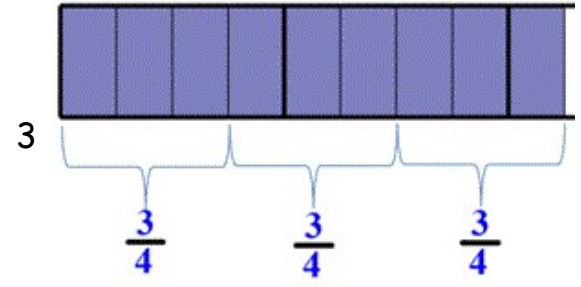
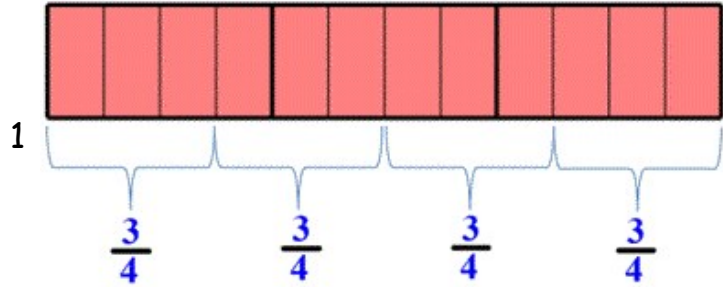
- Both numbers are greater than 3.
- The greatest common factor of the two numbers is 2.

What are the two numbers?

- 1 3 and 16
- 2 6 and 8
- 3 4 and 6
- 4 6 and 16

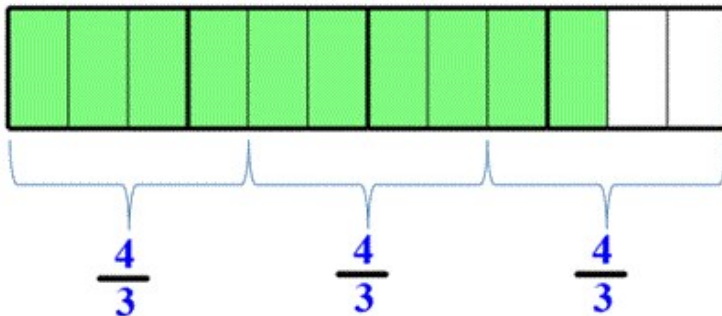
9 Answer _____

Which model below can be used to represent the following division problem: $2\frac{1}{4} \div \frac{3}{4} = 3?$



10 Answer _____

The model below represents a division problem.



Which of the following equations is represented by the model?

1 $3\frac{1}{3} \div \frac{4}{3} = 2\frac{1}{3}$

2 $3\frac{1}{3} \div \frac{4}{3} = 2\frac{1}{2}$

3 $\frac{4}{3} \div 3\frac{1}{3} = 2\frac{1}{2}$

4 $\frac{4}{3} \div 3\frac{1}{3} = 2\frac{1}{3}$

11 Answer _____

What factor is missing from the factors of 60 below?

1, 2, 3, 4, 5, 6, 10, _____, 15, 20, 30, 60

1 12

2 22

3 25

4 11

12 Answer _____

Jillian is doing her math homework. What number should Jillian use to reduce $\frac{18}{54}$ to simplest form?

1 9

2 18

3 27

4 54

13 Answer _____

The greatest common factor is:

1 the largest whole number which is a factor of both numbers.

2 a whole number which has exactly two factors.

3 the least number other than zero that is a multiple of each of two or more numbers.

4 the least common multiple of the denominators of two or more fractions.

14 Answer _____

Which number is *not* a multiple of 11?

1 99

2 110

3 121

4 142

15 Answer _____

What step(s) are needed to find the least common multiple of 6 and 8?

- I. Change the numbers 6 and 8 to decimals
- II. List some of the multiples of 6 and 8
- III. Multiply and divide 6 and 8
- IV. Circle the multiples that 6 and 8 have in common.

- 1 II only
- 2 III only
- 3 III and IV
- 4 II and IV

16 Answer _____



Max is programming a light show. He plans to use a blue light every 4 seconds. If Max uses an orange light every 7 seconds, both colors will be on at the same time every:

- 1 14 seconds
- 2 16 seconds
- 3 21 seconds
- 4 28 seconds

17 Answer _____

Which sum below is equal to 22.49?

- 1 $8.4 + 14.27 + 0.02$
- 2 $6.6 + 12 + 4.19$
- 3 $7 + 14.89 + 0.6$
- 4 $5.9 + 17.47 + 12$

18 Answer _____

Subtract: $145.67 - 33.5$

- 1 112.17
- 2 142.32
- 3 172.17
- 4 179.17

19 Answer _____



The Ortiz family drove 425.8 miles on Monday, 375 miles on Tuesday, and 487.5 miles on Wednesday to arrive on vacation in New Orleans. What was the total number of miles that they drove in the three days?

- 1 940.8
- 2 950.8
- 3 1,283.8
- 4 1,288.3

20 Answer _____

The table shows the total points for platform diving scores for women for the past 4 Olympic games:

Year	Diver	Score
1992	Fu Ming-Xia, China	461.43
1996	Fu Ming-Xia, China	521.58
2000	Laura Wilkinson, US	543.75
2004	Chantelle Newberry, AUS	590.31

What is the difference between the highest and lowest scores?

- 1 131.12
- 2 128.88
- 3 129.92
- 4 1,051.74