

Ratios Packet

Write the ratio. Explain what the ratio means.

1. forks to spoons



2. toothbrushes : toothpaste



Use the table to write the ratio. Explain what the ratio means.

| Marble | Number |
|--------|--------|
| Blue | 8 |
| Red | 4 |
| Purple | 6 |

3. red to purple

4. blue to red

5. purple : marbles

6. marbles : blue

7. There are 22 events at an indoor track and field meet. The ratio of track events to field events is 8 : 3. How many of the events are track events?

Review (continued)

Using the numbers from the table, find and state the rule in words.

1.

| x | y |
|-----|-----|
| 1 | 4 |
| 2 | 5 |
| 3 | 6 |
| 4 | 7 |

2.

| x | y |
|-----|-----|
| 2 | 6 |
| 4 | 12 |
| 6 | 18 |
| 8 | 24 |

3.

| x | y |
|-----|-----|
| 12 | 2 |
| 24 | 14 |
| 36 | 26 |
| 48 | 38 |

4.

| x | y |
|-----|---------------|
| 4 | 2 |
| 5 | $\frac{5}{2}$ |
| 6 | 3 |
| 7 | $\frac{7}{2}$ |

5. The table shows the results of buying pretzels from a vending machine. The x column is the amount you put into the machine. The y column is the change you receive back from the machine. Complete the table and state the rule in words.

| x | y |
|------|------|
| 0.65 | 0 |
| 0.70 | 0.05 |
| 0.75 | 0.10 |
| 1.00 | |

Evaluate the expression.

6. $\frac{5}{9} \cdot \frac{1}{3}$

7. $\frac{8}{15} \cdot \frac{3}{4}$

8. $\frac{1}{8} \cdot \frac{1}{9}$

9. $\frac{2}{3} \div \frac{9}{10}$

10. $\frac{7}{8} \div \frac{11}{16}$

11. $\frac{3}{10} \div \frac{2}{5}$

12. You have 8 cups of flour. A recipe calls for $\frac{2}{3}$ cup of flour. Another recipe calls for $\frac{1}{4}$ cup of flour. How much flour do you have left after making the recipes?

Multiply. Use estimation to check your answer.

1. $\begin{array}{r} 0.5 \\ \times 4 \\ \hline \end{array}$

2. $\begin{array}{r} 3.8 \\ \times 6 \\ \hline \end{array}$

3. $\begin{array}{r} 2.1 \\ \times 11 \\ \hline \end{array}$

4.
$$\begin{array}{r} 0.8 \\ \times 0.6 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 0.003 \\ \times 0.09 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 8.91 \\ \times 1.26 \\ \hline \end{array}$$

7. You earn \$7.80 an hour working as a dog sitter. You work 12.5 hours during the weekend. How much money do you make?

8. You use a microscope to look at bacteria that is 0.0034 millimeter long. The microscope magnifies the bacteria 430 times. How long does the bacteria appear to be when you look at it through the microscope?

Divide. Check your answer.

1. $3 \overline{)18.6}$

2. $6 \overline{)46.8}$

3. $4 \overline{)7.6}$

4. $24.5 \div 7$

5. $0.096 \div 8$

6. $15.65 \div 5$

7. $3.1 \overline{)17.36}$

8. $6.4 \overline{)43.52}$

9. $7.05 \overline{)8.46}$

10. $9.24 \div 15.4$

11. $7.06 \div 0.353$

12. $0.015 \div 0.003$