

**Express the ratio as a reduced fraction.**

1) 0.24 to 0.03

2) 4 to 8

3) 1.6 to 2.4

4) 14 to 6

5) 16 to 12

6) 0.18 to 0.22

7) 21 to 14

8) 6 to 12

9) 1.2 to 2.1

10) 24 to 4

11) 2.4 to 0.8

12) 0.04 to 0.12

**Express the ratio as a reduced fraction.**

1) 0.24 to 0.03

Answer:  $\frac{8}{1}$

2) 4 to 8

Answer:  $\frac{1}{2}$

3) 1.6 to 2.4

Answer:  $\frac{2}{3}$

4) 14 to 6

Answer:  $\frac{7}{3}$

5) 16 to 12

Answer:  $\frac{4}{3}$

6) 0.18 to 0.22

Answer:  $\frac{9}{11}$

7) 21 to 14

Answer:  $\frac{3}{2}$

8) 6 to 12

Answer:  $\frac{1}{2}$

9) 1.2 to 2.1

Answer:  $\frac{4}{7}$

10) 24 to 4

$$\text{Answer: } \frac{6}{1}$$

11) 2.4 to 0.8

$$\text{Answer: } \frac{3}{1}$$

12) 0.04 to 0.12

$$\text{Answer: } \frac{1}{3}$$

MathVine - Pre-Algebra

Name \_\_\_\_\_

Ratio as Fraction

Date \_\_\_\_\_ Period \_\_\_\_\_

### Solution Steps

1) 0.24 to 0.03

To express the ratio '0.24 to 0.03' as a fraction, place 0.24 over 0.03 and reduce. Multiply numerator and denominator by 100.

$$\frac{0.24}{0.03} \cdot \frac{100}{100} = \frac{24}{3}$$

$\frac{24}{3}$  can be reduced, since 3 is a factor of both 24 and 3:

$$\frac{24}{3} \div \frac{3}{3} = 8$$

The fraction is now in lowest terms

2) 4 to 8

To express the ratio '4 to 8' as a fraction, place 4 over 8 and reduce.

$\frac{4}{8}$  can be reduced, since 4 is a factor of both 4 and 8:

$$\frac{4}{8} \div \frac{4}{4} = \frac{1}{2}$$

The fraction is now in lowest terms

3) 1.6 to 2.4

To express the ratio '1.6 to 2.4' as a fraction, place 1.6 over 2.4 and reduce. Multiply numerator and denominator by 10.

$$\frac{1.6}{2.4} \cdot \frac{10}{10} = \frac{16}{24}$$

$\frac{16}{24}$  can be reduced, since 8 is a factor of both 16 and

$$\frac{16}{24} \div \frac{8}{8} = \frac{2}{3}$$

The fraction is now in lowest terms

4) 14 to 6

To express the ratio '14 to 6' as a fraction, place 14 over 6 and reduce

$\frac{14}{6}$  can be reduced, since 2 is a factor of both 14 and 6:  
 $\frac{14}{6} \div \frac{2}{2} = \frac{7}{3}$

The fraction is now in lowest terms

5) 16 to 12

To express the ratio '16 to 12' as a fraction, place 16 over 12 and reduce

$\frac{16}{12}$  can be reduced, since 4 is a factor of both 16 and 12:  
 $\frac{16}{12} \div \frac{4}{4} = \frac{4}{3}$

The fraction is now in lowest terms

6) 0.18 to 0.22

To express the ratio '0.18 to 0.22' as a fraction, place 0.18 over 0.22 and reduce

Multiply numerator and denominator by 100  
 $\frac{0.18}{0.22} * \frac{100}{100} = \frac{18}{22}$

$\frac{18}{22}$  can be reduced, since 2

is a factor of both 18 and 22:  
 $\frac{18}{22} \div \frac{2}{2} = \frac{9}{11}$

The fraction is now in lowest terms

7) 21 to 14

To express the ratio '21 to 14' as a fraction, place 21 over 14 and reduce

$\frac{21}{14}$  can be reduced, since 7 is a factor of both 21 and 14:  
 $\frac{21}{14} \div \frac{7}{7} = \frac{3}{2}$

The fraction is now in lowest terms

8) 6 to 12

To express the ratio '6 to 12' as a fraction, place 6 over 12 and reduce

$\frac{6}{12}$  can be reduced, since 6 is a factor of both 6 and 12:  
 $\frac{6}{12} \div \frac{6}{6} = \frac{1}{2}$

The fraction is now in lowest terms

9) 1.2 to 2.1

To express the ratio '1.2 to 2.1' as a fraction, place 1.2 over 2.1 and reduce

Multiply numerator and denominator by 10  
 $\frac{1.2}{2.1} * \frac{10}{10} = \frac{12}{21}$

$\frac{12}{21}$  can be reduced, since 3

is a factor of both 12 and 21:  
 $\frac{12}{21} \div \frac{3}{3} = \frac{4}{7}$

The fraction is now in lowest terms

10) 24 to 4

To express the ratio '24 to 4' as a fraction, place 24 over 4 and reduce

$\frac{24}{4}$  can be reduced, since 4 is a factor of both 24 and 4:  
 $\frac{24}{4} \div \frac{4}{4} = 6$

The fraction is now in lowest terms

11) 2.4 to 0.8

To express the ratio '2.4 to 0.8' as a fraction, place 2.4 over 0.8 and reduce

Multiply numerator and denominator by 10

$$\frac{2.4}{0.8} * \frac{10}{10} = \frac{24}{8}$$

$\frac{24}{8}$  can be reduced, since 8

is a factor of both 24 and 8:

$$\frac{24}{8} \div \frac{8}{8} = 3$$

The fraction is now in lowest terms

12) 0.04 to 0.12

To express the ratio '0.04 to 0.12' as a fraction, place 0.04 over 0.12 and reduce

Multiply numerator and denominator by 100

$$\frac{0.04}{0.12} * \frac{100}{100} = \frac{4}{12}$$

$\frac{4}{12}$  can be reduced, since 4

is a factor of both 4 and 12:

$$\frac{4}{12} \div \frac{4}{4} = \frac{1}{3}$$

The fraction is now in lowest terms