Ratio as Fraction

Express the ratio as a reduced fraction.

1) 1.5 to 0.3

2) 6 to 2

3) 22 to 2

4) 1.4 to 0.2

5) 2.1 to 2.4

6) 10 to 12

7) 0.2 to 1.6

8) 14 to 7

9) 6 to 15

10) 0.02 to 0.18

11) 0.16 to 0.22

12) 18 to 6

Name_____

Date_____ Period_____

Express the ratio as a reduced fraction.

1) 1.5 to 0.3

Answer: $\frac{5}{1}$

2) 6 to 2

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

3) 22 to 2

Answer: $\frac{11}{1}$

4) 1.4 to 0.2

Answer: $\frac{7}{1}$

5) 2.1 to 2.4

Answer: $\frac{7}{8}$

6) 10 to 12

Answer: $\frac{5}{6}$

7) 0.2 to 1.6

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

8) 14 to 7

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

9) 6 to 15

Answer: $\frac{2}{5}$

10) 0.02 to 0.18

Answer: $\dfrac{1}{9}$

11) 0.16 to 0.22

Answer: $\dfrac{8}{11}$

12) 18 to 6

Answer: $\dfrac{3}{1}$

Name_____

Ratio as Fraction

Date_____ Period_____

Solution Steps

1) 1.5 to 0.3

To express the ratio '1.5 to 0.3' as a fraction, place 1.5 over 0.3 and reduce

Multiply numerator and denominator by 10

$$\frac{1.5}{0.3} * \frac{10}{10} = 5$$

$\dfrac{15}{3}$ can be reduced, since 3 is a factor of both 15 and 3:

$$\frac{15}{3} \div \frac{3}{3} = 5$$

The fraction is now in lowest terms

2) 6 to 2

To express the ratio '6 to 2' as a fraction, place 6 over 2 and reduce

$\dfrac{6}{2}$ can be reduced, since 2 is a factor of both 6 and 2:

$$\frac{6}{2} \div \frac{2}{2} = 3$$

The fraction is now in lowest terms

3) 22 to 2

To express the ratio '22 to 2' as a fraction, place 22 over 2 and reduce

$\dfrac{22}{2}$ can be reduced, since 2 is a factor of both 22 and 2:

$$\frac{22}{2} \div \frac{2}{2} = 11$$

The fraction is now in lowest terms

4) 1.4 to 0.2

To express the ratio '1.4 to 0.2' as a fraction, place 1.4 over 0.2 and reduce

Multiply numerator and denominator by 10

$$\frac{1.4}{0.2} * \frac{10}{10} = 7$$

$\frac{14}{2}$ can be reduced, since 2 is a factor of both 14 and 2:

$$\frac{14}{2} \div \frac{2}{2} = 7$$

The fraction is now in lowest terms

5) 2.1 to 2.4

To express the ratio '2.1 to 2.4' as a fraction, place 2.1 over 2.4 and reduce

Multiply numerator and denominator by 10

$$\frac{2.1}{2.4} * \frac{10}{10} = \frac{21}{24}$$

$\frac{21}{24}$ can be reduced, since 3 is a factor of both 21 and 24:

$$\frac{21}{24} \div \frac{3}{3} = \frac{7}{8}$$

The fraction is now in lowest terms

6) 10 to 12

To express the ratio '10 to 12' as a fraction, place 10 over 12 and reduce

$\frac{10}{12}$ can be reduced, since 2 is a factor of both 10 and 12:

$$\frac{10}{12} \div \frac{2}{2} = \frac{5}{6}$$

The fraction is now in lowest terms

7) 0.2 to 1.6

To express the ratio '0.2 to 1.6' as a fraction, place 0.2 over 1.6 and reduce

Multiply numerator and denominator by 10

$$\frac{0.2}{1.6} * \frac{10}{10} = \frac{2}{16}$$

$\frac{2}{16}$ can be reduced, since 2 is a factor of both 2 and 16:

$$\frac{2}{16} \div \frac{2}{2} = \frac{1}{8}$$

The fraction is now in lowest terms

8) 14 to 7

To express the ratio '14 to 7' as a fraction, place 14 over 7 and reduce

$\frac{14}{7}$ can be reduced, since 7 is a factor of both 14 and 7:

$$\frac{14}{7} \div \frac{7}{7} = 2$$

The fraction is now in lowest terms

9) 6 to 15

To express the ratio '6 to 15' as a fraction, place 6 over 15 and reduce

$\frac{6}{15}$ can be reduced, since 3 is a factor of both 6 and 15:

$$\frac{6}{15} \div \frac{3}{3} = \frac{2}{5}$$

The fraction is now in lowest terms

10) 0.02 to 0.18

To express the ratio '0.02 to 0.18' as a fraction, place 0.02 over 0.18 and reduce

Multiply numerator and denominator by 100

$$\frac{0.02}{0.18} * \frac{100}{100} = \frac{2}{18}$$

$\frac{2}{18}$ can be reduced, since 2 is a factor of both 2 and 18:

$$\frac{2}{18} \div \frac{2}{2} = \frac{1}{9}$$

The fraction is now in lowest terms

11) 0.16 to 0.22

To express the ratio '0.16 to 0.22' as a fraction, place 0.16 over 0.22 and reduce

Multiply numerator and denominator by 100

$$\frac{0.16}{0.22} * \frac{100}{100} = \frac{16}{22}$$

$\frac{16}{22}$ can be reduced, since 2 is a factor of both 16 and 22:

$$\frac{16}{22} \div \frac{2}{2} = \frac{8}{11}$$

The fraction is now in lowest terms

12) 18 to 6

To express the ratio '18 to 6' as a fraction, place 18 over 6 and reduce

$\frac{18}{6}$ can be reduced, since 6 is a factor of both 18 and 6:

$$\frac{18}{6} \div \frac{6}{6} = 3$$

The fraction is now in lowest terms