

## Solving Proportions

Solve each proportion.

1)  $\frac{10}{8} = \frac{n}{10}$

2)  $\frac{7}{5} = \frac{x}{3}$

3)  $\frac{9}{6} = \frac{x}{10}$

4)  $\frac{7}{n} = \frac{8}{7}$

5)  $\frac{4}{3} = \frac{8}{x}$

6)  $\frac{7}{b+5} = \frac{10}{5}$

7)  $\frac{6}{b-1} = \frac{9}{7}$

8)  $\frac{4}{m-8} = \frac{8}{2}$

9)  $\frac{5}{6} = \frac{7n+9}{9}$

10)  $\frac{4}{9} = \frac{r-3}{6}$



$$11) \frac{7}{9} = \frac{b}{b-10}$$

$$12) \frac{9}{k-7} = \frac{6}{k}$$

$$13) \frac{4}{n+2} = \frac{7}{n}$$

$$14) \frac{n}{n-3} = \frac{2}{3}$$

$$15) \frac{x-3}{x} = \frac{9}{10}$$

$$16) \frac{5}{r-9} = \frac{8}{r+5}$$

$$17) \frac{p+10}{p-7} = \frac{8}{9}$$

$$18) \frac{2}{8} = \frac{n+4}{n-4}$$

$$19) \frac{n-5}{n+8} = \frac{2}{7}$$

$$20) \frac{n-6}{n-7} = \frac{9}{2}$$



Name: \_\_\_\_\_

Score: \_\_\_\_\_

### Ratio Worksheet

Read the statements carefully. Fill the ratios in reduced form:

**A basket contains 36 fruits. 14 are apples, 16 are oranges and the remaining are pine apples.**

The ratio of apples to oranges is \_\_\_\_\_

The ratio of oranges to pine apples is \_\_\_\_\_

The ratio of pine apples to apples is \_\_\_\_\_

The ratio of oranges to the total fruits in the basket is \_\_\_\_\_

The ratio of pine apples to the total fruits in the basket is \_\_\_\_\_

The ratio of apples to total fruits in the basket is \_\_\_\_\_

**Mary has a total of 50 coins in her piggy bank. There are 15 dimes, 25 nickels and the remaining are quarters.**

The ratio of quarters to nickels is \_\_\_\_\_

The ratio of dimes to quarters is \_\_\_\_\_

The ratio of nickels to dimes is \_\_\_\_\_

The ratio of quarters to the total coins in the piggy bank is \_\_\_\_\_

The ratio of dimes to the total coins in the piggy bank is \_\_\_\_\_

The ratio of nickels to the total coins in the piggy bank is \_\_\_\_\_



## Proportions

State if each pair of ratios forms a proportion.

1)  $\frac{4}{2}$  and  $\frac{20}{6}$

2)  $\frac{3}{2}$  and  $\frac{18}{8}$

3)  $\frac{4}{3}$  and  $\frac{16}{12}$

4)  $\frac{4}{3}$  and  $\frac{8}{6}$

5)  $\frac{12}{24}$  and  $\frac{3}{4}$

6)  $\frac{6}{9}$  and  $\frac{2}{3}$

Solve each proportion.

7)  $\frac{10}{k} = \frac{8}{4}$

8)  $\frac{m}{10} = \frac{10}{3}$

9)  $\frac{2}{x} = \frac{7}{9}$

10)  $\frac{3}{x} = \frac{7}{10}$

