

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## RATIO &amp; PROPORTION: Worksheet 1

There are 3 red marbles, 4 blue marbles, 2 black marbles, and 6 yellow marbles in a bag.  
Write the ratios of the following comparisons as fractions in simplest form.

- 1) blue to yellow
- 2) red to the total number of marbles

Solve the following proportions for the given variable.

3)  $\frac{x}{3} = \frac{25}{15}$

4)  $\frac{4}{y} = \frac{10}{15}$

5)  $\frac{8}{9} = \frac{40}{w}$

6)  $\frac{3.5}{2} = \frac{t}{6}$

7)  $\frac{6}{2.2} = \frac{15}{x}$

8)  $\frac{340}{500} = \frac{r}{120}$

9) A map key shows 2 inches = 120 miles. How many miles would 8.5 inches equal?

10) Bill scored 85% on a test. He answered 34 questions correctly. How many questions were on the test?

## KEY

### RATIO & PROPORTION: Worksheet 1

There are 3 red marbles, 4 blue marbles, 2 black marbles, and 6 yellow marbles in a bag. Write the ratios of the following comparisons as fractions in simplest form.

- 1) blue to yellow  $\frac{4}{6} = \frac{2}{3}$   
2) red to the total number of marbles  $\frac{3}{15} = \frac{1}{5}$

Solve the following proportions for the given variable.

3)  $\frac{x}{3} = \frac{25}{15}$        $3 \cdot 25 \div 15 = 5$

4)  $\frac{4}{y} = \frac{10}{15}$        $4 \cdot 15 \div 10 = 6$

5)  $\frac{8}{9} = \frac{40}{w}$        $9 \cdot 40 \div 8 = 45$

6)  $\frac{3.5}{2} = \frac{t}{6}$        $3.5 \cdot 6 \div 2 = 10.5$

7)  $\frac{6}{2.2} = \frac{15}{x}$        $2.2 \cdot 15 \div 6 = 5.5$

8)  $\frac{340}{500} = \frac{r}{120}$        $340 \cdot 120 \div 500 = 81.6$

- 9) A map key shows 2 inches = 120 miles. How many miles would 8.5 inches equal?

$$\frac{2}{120} = \frac{8.5}{x} \quad 120 \cdot 8.5 \div 2 = 510$$

- 10) Bill scored 85% on a test. He answered 34 questions correctly. How many questions were on the test?

$$\frac{85}{100} = \frac{34}{x} \quad 100 \cdot 34 \div 85 = 40$$