

NAME _____

DATE _____

RATIO & PROPORTION: Worksheet 4

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

Solve the following proportions for the given variable.

3) $\frac{x}{9} = \frac{16}{36}$

4) $\frac{10}{y} = \frac{65}{104}$

5) $\frac{7}{11} = \frac{21}{w}$

6) $\frac{2.25}{12} = \frac{t}{48}$

7) $\frac{5}{1.2} = \frac{1.05}{x}$

8) $\frac{1250}{250} = \frac{r}{200}$

9) A map key shows 3 inches = 250 miles. How many miles would 8.25 inches equal?

10) Bill scored 80% on a test. He answered 60 questions correctly. How many questions were on the test?

KEY

RATIO & PROPORTION: Worksheet 4

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

Solve the following proportions for the given variable.

3) $\frac{x}{9} = \frac{16}{36}$ $9 \cdot 16 \div 36 = 4$

4) $\frac{10}{y} = \frac{65}{104}$ $10 \cdot 104 \div 65 = 16$

5) $\frac{7}{11} = \frac{21}{w}$ $11 \cdot 21 \div 7 = 33$

6) $\frac{2.25}{12} = \frac{t}{48}$ $2.25 \cdot 48 \div 12 = 9$

7) $\frac{5}{1.2} = \frac{1.05}{x}$ $1.2 \cdot 1.05 \div 5 = .252$

8) $\frac{1250}{250} = \frac{r}{200}$ $1250 \cdot 200 \div 250 = 1000$

9) A map key shows 3 inches = 250 miles. How many miles would 8.25 inches equal?

$$\frac{3}{250} = \frac{8.25}{x} \quad 250 \cdot 8.25 \div 3 = 687.5$$

10) Bill scored 80% on a test. He answered 60 questions correctly. How many questions were on the test?

$$\frac{80}{100} = \frac{60}{x} \quad 100 \cdot 60 \div 80 = 75$$