

NAME _____

DATE _____

RATIO & PROPORTION: Worksheet 2

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 red
- 2) black to the total number of marbles

Solve the following proportions for the given variable.

3) $\frac{x}{8} = \frac{21}{24}$

4) $\frac{12}{y} = \frac{30}{50}$

5) $\frac{4}{5} = \frac{28}{w}$

6) $\frac{5.25}{4} = \frac{t}{12}$

7) $\frac{3}{5.2} = \frac{16.5}{x}$

8) $\frac{300}{750} = \frac{r}{50}$

9) A map key shows 1.5 inches = 80 miles. How many miles would 6.75 inches equal?

10) Bill scored 80% on a test. He answered 64 questions correctly. How many questions were on the test?

KEY

RATIO & PROPORTION: Worksheet 2

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 red $\frac{4}{3}$
- 2) black to the total number of marbles $\frac{2}{15}$

Solve the following proportions for the given variable.

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

4) $\frac{12}{y} = \frac{30}{50}$ $12 \cdot 50 \div 30 = 20$

5) $\frac{4}{5} = \frac{28}{w}$ $5 \cdot 28 \div 4 = 35$

6) $\frac{5.25}{4} = \frac{t}{12}$ $5.25 \cdot 12 \div 4 = 15.75$

7) $\frac{3}{5.2} = \frac{16.5}{x}$ $5.2 \cdot 16.5 \div 3 = 28.6$

8) $\frac{300}{750} = \frac{r}{50}$ $300 \cdot 50 \div 750 = 20$

- 9) A map key shows 1.5 inches = 80 miles. How many miles would 6.75 inches equal?

$$\frac{1.5}{80} = \frac{6.75}{x} \quad 80 \cdot 6.75 \div 1.5 = 360$$

- 10) Bill scored 80% on a test. He answered 64 questions correctly. How many questions were on the test?

$$\frac{80}{100} = \frac{64}{x} \quad 100 \cdot 64 \div 80 = 80$$