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RATIO & PROPORTION: Worksheet 3

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) black to yellow

2) yellow to the total number of marbles

Solve the following proportions for the given variable.

3) $\frac{x}{7} = \frac{30}{42}$

4) $\frac{6}{y} = \frac{20}{50}$

5) $\frac{3}{11} = \frac{12}{w}$

6) $\frac{4.5}{3} = \frac{t}{12}$

7) $\frac{8}{5.4} = \frac{30}{x}$

8) $\frac{720}{300} = \frac{r}{55}$

9) A map key shows 1.25 inches = 150 miles. How many miles would 4.5 inches equal?

10) Bill scored 75% on a test. He answered 90 questions correctly. How many questions were on the test?

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KEY
RATIO & PROPORTION: Worksheet 3

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

Solve the following proportions for the given variable.

3) $\frac{x}{7} = \frac{30}{42}$ $7 \bullet 30 \div 42 = 5$

4) $\frac{6}{y} = \frac{20}{50}$ $6 \bullet 50 \div 20 = 15$

5) $\frac{3}{11} = \frac{12}{w}$ $11 \bullet 12 \div 3 = 44$

6) $\frac{4.5}{3} = \frac{t}{12}$ $4.5 \bullet 12 \div 3 = 18$

7) $\frac{8}{5.4} = \frac{30}{x}$ $5.4 \bullet 30 \div 8 = 20.25$

8) $\frac{720}{300} = \frac{r}{55}$ $720 \bullet 55 \div 300 = 132$

9) A map key shows 1.25 inches = 150 miles. How many miles would 4.5 inches equal?

$\frac{1.25}{150} = \frac{4.5}{x}$ $150 \bullet 4.5 \div 1.25 = 540$

10) Bill scored 75% on a test. He answered 90 questions correctly. How many questions were on the test?

$\frac{75}{100} = \frac{90}{x}$ $100 \bullet 90 \div 75 = 120$