Ratio:

Examples:

Proportional:

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1. State whether each of the following ratios are proportional. Give reasons for your answer.
a) $\frac{11}{12}, \frac{18}{27}$
b) $\frac{6}{102}, \frac{1}{17}$
c) $11: 8,22: 16$

To solve a proportion, you need to find the value of the variable. You can cross-multiply, and solve.
2. Solve each proportion.
a) $\frac{a}{7}=\frac{18}{42}$
b) $\frac{2}{18}=\frac{b}{6}$
c) $\frac{2}{14}=\frac{1}{k}$

If the proportion is in ratio form, first write each ratio as a fraction and then solve.
3. Solve each proportion.

For a triple ratio, write as fractions and then solve one proportion at a time.
a) $u: 12=25: 10$
b) $5: d=4: 6$
c) $6: 8: x=y: 2: 4$

Solving Proportions (Try these on your own.)
a) $\frac{3}{5}=\frac{x}{20}$
b) $\frac{x}{3}=\frac{5}{6}$
c) $h: 25=4: 10$
d) $4: 3: 1=10: y: z$

To solve a word problem, write the information in a ratio using a variable for the unknown quantity. Then solve!
4. 2 cups of uncooked Kraft Dinner noodles yields 3 cups of cooked Kraft Dinner noodles. How many cups of uncooked noodles are needed to make 36 cups of cooked noodles?

Homework:
pg. 4 \#3, 4 + Handout

