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Ratio--

Proportion--

Example: In class, there is a 3 to 2 ratio of boys to girls. Write four different ratios.

part to part--

part to whole--

Ex 1. In the last six months, I drove my car for 4460 miles. If I continue driving my car at this same rate, then how many miles will I have driven after 2.75 years (total)?

Ex 2. An ad says "3 movies for \$18." At that rate, what is the cost of 5 movies?

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Ex 3. In room A, there are 1 blue hat and 2 red hats, in room B, there are 2 blue hats and 4 red hats, in room C, there are 5 blue hats and 10 red hats. If all the hats in rooms B and C are moved to room A, what will be the ratio of blue hats to red hats? Can you generalize this?

Ex 4. In a photograph of a father and daughter, the daughter's height is 2.3 cm and the father's height is 5.8 cm. If the father is actually 188 cm tall, how tall is his daughter?

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Ex 5. Al is 5 feet tall and has a shadow that is 18 inches long. At the same time, a tree has a shadow that is 15 feet long. Al sets up and solves the proportion as follows:

$$\frac{5 \text{ ft}}{15 \text{ ft}} = \frac{18 \text{ inches}}{x \text{ inches}}$$

Is he correct? If so, wny? IT not, now would you help him?