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Cross product is usually used to solve proportion word problems. If you do a cross product, you will get:  $4 \times x = 3 \times 8$   $4 \times x = 24$ . Since  $4 \times 6 = 24$ ,  $x = 6$  6 liters should be mixed with 8 lemons. More interesting proportion word problems Problem # 2 A boy who is 3 feet tall can cast a shadow on the ground that is 7 feet long.

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Percent Proportion Word Problems Directions: Solve each word problem. Show each proportion and label each answer. 1. The movie theater has 250 seats. 225 seats were sold for the current showing.

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In a percent problem the percent is com-

pared to 100 and the part is compared to the base. Ex.: 21 is 70% of 30 70% means the ratio 100 70 21 is compared to 30 in the ratio 30 21 Whenever one ratio is equal to another ratio, the equation is called a proportion. All percent problems can be set up as proportions. Ex.: 70 % of 30 is 21 100

### Percent Worksheets

Percent is the unknown quantity, so x will represent the PERCENT in our proportion. Substitute: becomes Solve: Cross multiply and we get:  $300x = 1500$

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2. Sort out the information to make a basic percent problem, such as "30% of what is 17?" 3. Sometimes, you will have to subtract or add some of the numbers. 4. The base will always be the original number, price, or total. Some examples of percent word problems. A baseball pitcher won 80% of the games he pitched. If he pitched 35

Proportion Word Problems : Definition of Proportion - A proportion is mathematical statement showing that two ratios are equal. Sample problems and Exercises.

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Percentage Word Problems . Find the percent for the percentage word problems. Math word problem worksheets. Percentage Word Problems. Percentage Word Problems. Percentage Word Problems. Percentage Word Problems. Percentage Word Problems. All worksheets are created by experienced and qualified teachers.

The problem is that students focus on the whole value number and not the meaning of a percentage. A percentage is based on the concept of one, meaning that one hundred percent is equal to one. Which means that when students see fifty percent, they need instead to see it as the decimal value 0.5.

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