

## Percentage Word Problem Worksheet

Show all work; a calculator may be used for calculations.

1. The school board has approved the addition of a new sports team at your school. The district ordered 30 team uniforms and received a bill for \$2,992.50. The total included a 5% discount. The school needs to place another order for two more uniforms. The company said the discount will not apply because the discount only applies to orders of \$1,000 or more. How much will the two uniforms cost?

2. The sports booster club is selling candles as a fundraiser to support the new team. The club earns a commission on its candle sales (which means it receives a certain percentage of the total dollar amount sold). If the club gets to keep 30% of the money from the candle sales, what would the club's total sales have to be in order to make at least \$500?

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$$\text{Quantity} = \text{Percent} \cdot \text{Whole}$$

$$2,992.50 = 0.95W$$

$$2,992.50 \left( \frac{1}{0.95} \right) = 0.95 \left( \frac{1}{0.95} \right) W$$

$$3,150 = W$$

30 uniforms cost \$3,150 before the discount.  $\frac{\$3,150}{30}$  per uniform means each uniform costs \$105.  $\$105 \times 2 = \$210$ , so it will cost \$210 for 2 uniforms without a discount.

2. The sports booster club is selling candles as a fundraiser to support the new team. The club earns a commission on its candle sales (which means it receives a certain percentage of the total dollar amount sold). If the club gets to keep 30% of the money from the candle sales, what would the club's total sales have to be in order to make at least \$500?

$$\text{Part} = \text{Percent} \cdot \text{Whole}$$

$$500 = 0.3W$$

$$500 \left( \frac{1}{0.3} \right) = 0.3 \left( \frac{1}{0.3} \right) W$$

$$1,666.67 \approx W$$

They will need candle sales totaling at least \$1,666.67.

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