

**Solving Percent Problems Using Proportions**

Set up a proportion in order to solve the problem.

1) 6 is what percent of 30?

2) What is 45% of 80?

3) 12 is 60% of what number?

4) 23 is 50% of what number?

5) 20 is 200% of what number?

6) What is 20% of 50?

7) What is 5% of 40?

8) 12 is what percent of 48?

9) 32 is what percent of 16?

10) 90 is what percent of 10?

**Solve & show your work! Use a proportion if necessary!**

- 1) Hardy's plant grows rapidly. It grows by 10 cm every 2 years. How much taller will Hardy's plant be in 5 years?
- 2) A beaver burrows 10 holes every 5 minutes. How many holes will it burrow if time is increased to 25 minutes?
- 3) Greg drinks 6 liters of water over 2 days. In how many days would he consume another 12 liters?
- 4) Ron's factory is currently producing 30 chairs in a day. How many chairs will be produced if production is to be increased by 130%?
- 5) Fred has a bakery. He sells 40 cakes in a day. If his sales increased by 120%, how many cakes will he sell in a day?
- 6) Henry eats  $\frac{1}{3}$  of a loaf of bread in 2 days. How many loaves of bread will he eat in 12 days?
- 7) Veronica's bike requires 5 liters of gas to run for 10 kilometers. How many liters of gas does Veronica need if she has to cover 24 kilometers?
- 8) Betty has a cow. The cow produces 5 liters of milk in a day. If his diet is improved, the cow will produce 200% more milk. How much milk would the cow make in a day, if that were to happen?
- 9) A machine makes 20 carpets in a day. After oiling the machine, its efficiency will go up by 150%. How many carpets will be produced at this level?
- 10) Samantha can write  $1\frac{1}{2}$  pages in 3 minutes. How many pages could she write in 12 minutes?