

**Solve each problem**

- 1) 51% is 340% of what?
- 2) 93% of what number is 97%?
- 3) 27% of 142 is what number?
- 4) What percent of 125 is 29.3?
- 5) 60 is what percent of 126?
- 6) 67 is 67% of what?
- 7) 67 is 13% of what?
- 8) 41% of 78 is what?
- 9) 1 is what percent of 52.6?
- 10) what is 59% of 14m?
- 11) What is 90% of 130 inches?
- 12) 16 inches is 35% of what?
- 13) 90% of 54.4 hours is what?
- 14) What percent of 33.5 is 21?
- 15) Liam scored 22 out of 30 marks in Algebra, 35 out of 40 marks in Science and 89 out 100 marks in mathematics. In which subject his percentage of marks in best?
- 16) Ella require 50% to pass her test. If She gets 280 marks and falls short by 20 marks, what were the maximum marks she could have got?

**Find each percent change to the nearest percent, increase or decrease.**

- 1) From 32 grams to 82 grams
- 2) From 150m to 45 m
- 3) From \$438 to \$443
- 4) From 256 ft to 140 ft
- 5) From 6469 ft to 7488 ft
- 6) From 36 inches to 90 inches
- 7) From 54 ft to 104 ft
- 8) From 84 miles to 24 miles
- 9) The population of a place in a particular year increased by 15%. Next year it decreased by 15%. Find the net increase or decrease percent in the initial population.
- 10) The salary of a doctor is increased by 40%. By what percent should the new salary be reduced in order to restore the original salary

### **Find the selling price of each item**

- 1) Original price of a microphone: \$49.99, discount: 5%, tax: 5%
- 2) Cost of a pen: \$1.95, markup: 70%, discount: 40%, tax: 5%
- 3) Cost of a puppy: \$349.99, markup: 41%, discount: 23%
- 4) Cost a Shirt: \$14.95, mark up: 25%, discount: 45%
- 5) Cost of an oil change: \$21.95, markup: 95%
- 6) Cost of computer: \$1,850.00, markup: 75%

### **Use Simple interest to find the ending balance**

- 1) \$1,300 at 5% for 6 years.
- 2) \$5,400 at 7.5% for 6 months.
- 3) \$25,600 at 9.2% for 5 years.
- 4) \$24,000 at 8.5% for 9 years.
- 5) \$450 at 7% for 8 years.
- 6) \$54,200 at 8% for 5 years.
- 7) \$240 interest is earned on a principal of \$1500 at a simple interest rate of 4% interest per year. For how many years was the principal invested?
- 8) A new car, valued at \$28,000, depreciates at 9% per year from original price. Find the value of the car 3 years after purchase.
- 9) Sara puts \$2,000 into an investment yielding 5% annual simple interest; she left the money in for five years. How much interest does Sara get at the end of those five years?