



Finding the Original

ANSWERS



Section A: Work out how much 100% of each amount is

	Find 100%
30% = 63 g	210 g
20% = 45 cm	225 cm
45% = £27	£60
4% = 123 ml	3075 ml
5% = \$38	\$760
2.5% = 60 lb	2400 lb
17.5% = £84	£480

Section B: Find the original once it has been increased or decreased by the amounts indicated

After a 10% Increase	Original
£66	£60
\$22	\$20
132 cm	120 cm
517 kg	470 kg
After a 20% Increase	
£15 000	£12'500
\$4530	\$3775
6306 mm	5255 mm
€1 298 070	€1'081'725

After a 25% decrease	Original
£900	£1200
\$87	\$116
1050 cm	1400 cm
1687.5 kg	2250 kg
After a 4% decrease	
£15 000	£15'625
\$2304	\$2400
6144 mm	6400 mm
€148 128	€154'300

Section C

- In 2012 CostSaver supermarkets sold groceries at a value of £536 480. This was an increase of 12% on the 2011 figure. Find the value of the groceries sold by CostSaver in 2011. **£479'000**
- During 2005 the population of Greyston increased by 5%. At the end of the year the population was 788 655. What was the population at the beginning of the year? **751'100**
- A successful company decides to increase all staff wages by 10%. A woman earns \$19 250 per annum after the pay rise. How much did she earn before? **\$17'500**
- A school held a book sale. A book was sold for £3.15. This was a reduction of 70% of the original price. What was the original price of the book? **£10.50**
- A shoe shop has a closing down sale. All pairs of shoes have been reduced by 30%. A pair of shoes is on sale for £14.70. What was its price before the reduction? **£21**
- Tyrone sold his car for £6600. This was 40% less than the price he paid for the car. How much did Tyrone pay for the car originally? **£11'000**
- In a sale, the price of a new bathroom is reduced by 22%. The price in the sale is £5812.56. Calculate the price of the bathroom before the sale. **£7452**
- Christopher buys a desk. Christopher sells the desk for £63 in an auction and makes a loss of 12.5%. What did he pay for the desk? **£72**
- * Mary invested some money at 4% interest per annum for two years. After two years, she had £1406.08 in the bank. How much money did Mary originally invest? **£1300**