

# Percentage Increase & Decrease

## Exercise 1 – Non Calculator Questions

- 1 A lawnmower costing £130 is **reduced** by 50% in a sale.  
Calculate the sale price of the lawnmower.
- 2 A Gamestation costing £120 is in the sale marked "**25% discount.**"  
Calculate the sale price of the game station.
- 3 A pair of shoes are **reduced** by 10%.  
If the shoes cost £50 full price, how much are they after the discount?
- 4 Simon has a new bike which should have cost him £350 from the factory. He received a 20% **discount** for taking the shop display bike.  
How much did Simon pay for the bike?
- 5 A tourist helicopter ride to the Grand Canyon costs £162. Children under 5 years of age receive a 75% **discount**. How much does it cost for a child under 5 years of age to visit the Grand Canyon?
- 6 A shampoo bottle usually holds 240ml. In a special offer 25% is **added** to the contents. Calculate the amount of shampoo in the special offer bottle.
- 7 A cake shop decides to **increase** the weight of each cake by 20%. Each cake used to weigh 1600g. How much does each cake weigh now?
- 8 A painting costing £320 has its price **raised** by 50%. How much does the painting cost now?
- 9 A man buys a car at an auction for £2460. He fixes it up and sells it with a price **increase** of 20%. How much does he sell it for?
- 10 A recipe uses 72g of sugar. Mrs Helder decides to **increase** this amount by 25%. How much sugar does Mrs Helder need?

## Exercise 2

- 1 Milk costs 80p per litre, but the price is expected to rise shortly by 5%.  
What will the new cost of a litre of milk be?
- 2 Johnny takes the local bus to school. His return fare is £1.50 per day.  
The bus company decides to increase all their fares by 20%.  
What will Johnny's new return fare be?
- 3 In a sale a pair of shoes, normally priced at £47.52, are reduced by 25%.  
What is the sale price of the shoes?
- 4 The average attendance at a football stadium last season was 48000.  
This season it has dropped by 15%.  
What is the average attendance at the stadium this season?
- 5 Farmer Yates had 60 cattle, but due to an outbreak of sickness he lost 85% of his herd. How many cattle does he still have left?

## Exercise 3 – Calculator Questions

- 1 Calculate the sale price of the following items with the **reductions** stated:

	ITEM	NORMAL PRICE	DISCOUNT
(a)	T.V	£350	15%
(b)	D.V.D Player	£260	65%
(c)	Hi-Fi System	£850	30%
(d)	Shirt	£35	45%
(e)	Ornament	£15.80	25%
(f)	Table	£840	15%
(g)	Carpet	£688	14%
(h)	Fitted Kitchen	£5,800	24%
(i)	Magazine	£1.40	20%
(j)	Bag of sweets	£1.15	60%
(k)	Shoes	£52	5%