



Percentages - Level 2

1. A jacket normally costs £79.50.
In a sale there is 30% off the normal price.
What is the sale price of the jacket?
2. Organisers want to raise a total of £250 for new equipment.
The sponsored walk raises £150.
What % of the total does the sponsored walk raise?
3. The cost of a new driveway is £2400 before VAT.
VAT is 17.5%.
What is the total cost of the job including VAT?
4. Over 2004 there were 220 fatal accidents in the Construction Industry.
55 of them were on building sites.
What percentage of the total fatal accidents was on building sites?
5. A DVD player normally costs £239.50.
The price increases by 25%.
How much is the DVD player after the increase?
6. A family pays £1200 per month on bills.
They pay British Gas £720 per year.
What percentage of the monthly bill, goes to British Gas?
7. A survey shows that there were a total of 4250 crimes last year.
25% of crime is burglary.
How many crimes were due to burglary?
8. A weekly shop costs £85.00.
A man gets a 15% off with some coupons.
How much does he pay?
9. 9870 people go on 10km Run.
Only 60% complete the race.
How many complete the race?
10. A shop reduces a table lamp from £19.99 to £17.99
The shopper rounds the prices to the nearest pound to work out the percentage reduction.
What is the % reduction?

Percentages – Answers

As calculators are not permitted in the Level 2 exam – quick mental methods have been shown where possible (but these are not the only way of answering the questions!).

- 10% of £79.50 = £7.95 (move the decimal point one place to the left)
So 30% = (£8 x 3) – 15p = £23.85
Sale price of jacket = (79.50 – 23.85) = **£55.65**
- $150/250 = 3/5 = 60\%$ of total needed for new equipment
- VAT = 240 + 120 + 60 (i.e. 10% + 5% + 2.5%) = £420
So total cost of the job = £2400 + £420 = **£2820**
- $55/220 = 11/44 = \frac{1}{4} = 25\%$ fatal accidents were on building sites
- 25% of £239.50 = £59.875 (divide by four or halve then halve again)
Round to £59.88
So DVD player is (£239.50 + £59.88) after increase = **£299.38**
- A family pays £1200 per month on bills.
£720 ÷ 12 = £60 per month on gas.
 $60/1200 = 1/20 = 5\%$ monthly bill goes to British Gas
- $4250 \div 4 = 1062.5$ (halve, then halve again)
Rounds up to 1063 crimes due to burglary
- A weekly shop costs £85.00.
15% of £85 = £8.50 (10%) + £4.25 (5%) = £12.75
So man pays £85.00 - £12.75 = **£72.25**
- 50% of 9870 = 4935 (divide by 2)
10% of 9870 = 987 (move decimal point one place left)
So 60% = 4935 + 987 = 5922
5922 complete the race
- A shop reduces a table lamp from £19.99 to £17.99
£20 - £18 = £2 reduction
 $2/20 = 1/10 = 10\%$ reduction of original price