

Exercise – Percentages and Fractions

1. $12\frac{1}{2}\%$ of a batch of 19,960 bottles produced in a bottle plant are faulty and have to be reprocessed. How many are faulty and how many are not?
2. A safety-conscious employer wants 25% of his workforce to have a first aid certificate. Out of 748 employees, 97 already possess such a certificate. How many more need to obtain one to meet the target?
3. Sally moved up several grades at her work and found that her pay increased by $33\frac{1}{3}\%$ as a result. She used to earn £5.85 per hour. How much will she earn per hour now, and what will be her earnings for a $37\frac{1}{2}$ hour week?
4. $87\frac{1}{2}\%$ of the patients in a hospital one week are women. Out of a total of 1,320 patients, how many are women and how many are men?
5. In a sale, an article previously marked at £130 is reduced by 15%. What is its discounted price?
6. A nurse buys a car for £2,540 and sells it a year later, making a loss of 35%. For how much did she sell it?
7. A dealer bought 100 pairs of training shoes for a total of £1,595 and sold them, making a profit of 140%. What was the selling price of each pair?
8. A wholesaler pays £200 for a TV set, marks it up by 40% and sells it to a retailer. The retailer then marks his cost price up by 30% and sells the set on to a customer. What does the customer pay for it? (And the answer isn't £340 !)
9. A new car cost £12,500 to buy. After one year it had lost 23% of its value. What was it now worth?
10. A speculating company bought a patch of land for £15,000. A few years later it sold the land off, making a profit of 500%. For how much did it sell the land?