

- Q1. Margaret marks up (i.e. increases) all the items in her store by 125% of wholesale price. What would be the selling price of the following items if their cost prices (wholesale prices) are as indicated:
- (a) Dress \$110? (b) Belt \$24? (c) Shirt \$45? (d) Skirt \$42?
- Q2. If the rate of inflation is $2\frac{3}{4}\%$ p.a., what will a car priced at \$27 990 this year be priced at in 12 months time?
- Q3. I bought real estate valued at \$220 000. In the first year my investment increased by 12%, but in the second year the value dropped by 7%. What is the value of the property at the end of the second year?
- Q4. I instructed my stockbroker to buy 1000 shares at \$1.82 each. I told him to sell at a price that guaranteed a 15% profit or alternatively at a price that limited my loss to 5%. At what prices should he sell the shares?
- Q5. I can invest money at $5\frac{3}{4}\%$. How much should I invest now to ensure that I have \$5000 after 1 year.
- Q6. After an 8% wage increase a man's salary is \$32 950. What was his wage before the increase?
- Q7. After a 20% reduction in sale prices a mountain bike was \$230. How much did it cost before the reduction?
- Q8. \$1500 is deposited into a savings account paying 7% p.a. interest. The interest is allowed to accumulate in the account. What is the amount of interest paid to the account at the end of the third year?
- Q9. I borrowed \$130 000 at 6% p.a. interest. What will be my monthly interest repayments?
- Q10. A population is increasing at $2\frac{1}{2}\%$ p.a. If it is 20 400 000 now, how large was it a year ago?
- Q11. A car depreciates (i.e. decreases) in value by 15% for the first year and for each later year by 12% of its value at the beginning of that year. Calculate the percentage decrease in the value of the car after 3 years.

Level 5 — Percentages (ANSWERS)

- Q1. (a) \$247.50 (b) \$54.00 (c) \$101.25 (d) \$94.50
- Q2. \$28 759.73
- Q3. \$229 152.00
- Q4. \$2.09 or \$1.73
- Q5. \$4729.00
- Q6. \$30 509.26
- Q7. \$287.50
- Q8. \$120.21
- Q9. \$650/month
- Q10. 19, 902, 439
- Q11. 34.176%