

Q1. Find the discounted price:

- (a) \$5135, discount 43% (b) \$617.90, discount 6%
 (c) \$3691.75, discount 19% (d) \$321.51, discount 13%
 (e) \$5316.78, discount 24% (f) \$7864.05, discount 37%

Q2. Find the commission earned on the following amounts:

- (a) \$5315 at $1\frac{1}{2}\%$ (b) \$15 554 at $4\frac{1}{4}\%$ (c) \$39 461 at 2.2%
 (d) \$19 377 at $5\frac{3}{4}\%$ (e) \$33 996 at 3.6% (f) \$25 561 at 6.8%

Q3. Find the profit earned as a percentage of cost price (answer to nearest whole percentage):

- (a) CP \$5935, SP \$5998 (b) CP \$617, SP \$676
 (c) CP \$931, SP \$1014 (d) CP \$86, SP \$142
 (e) CP \$442, SP \$693 (f) CP \$3467, SP \$3906

Q4. Find the simple interest earned on the amounts below:

- (a) \$2160 at $3\frac{1}{2}\%$ for 2 years (b) \$590 at $4\frac{1}{4}\%$ for 5 years
 (c) \$9612 at 9% for 10 years (d) \$457 at $6\frac{1}{4}\%$ for 6 months
 (e) \$7473 at $5\frac{4}{5}\%$ for 18 months (f) \$3868 at $4\frac{3}{4}\%$ for 4 months

Q5. Find the size of the quantity if: (answer correct to 2 d.p.)

- (a) 3% is 43 g (b) $93\frac{1}{2}\%$ is 9.7 kg (c) 34% is 95 mL
 (d) 18.5% is 3.6 km (e) 42% is 0.39 m (f) 56.25% is \$3.14

Q6. A bottle of mineral water has the following content analysis on the label. Chloride 220 mg/L, Sodium 95 mg/L, Calcium 50 mg/L, Magnesium 45 mg/L and Potassium 6 mg/L. What is the percentage composition of the mineral water?

Q7. Catherine earns \$36 540 p.a. She is taxed in segments as follows: the first \$5000 of income is exempt of tax; income between \$5001 and \$25 000 is taxed at 20%; income between \$25 001 and \$30 000 is taxed at 28%; and income over \$30 001 is taxed at 36%. How much tax will she have to pay on her annual wage?

Q8. Interest of \$25.32 was earned in 3 months on a balance of \$1688. What is the interest rate per annum earned on the account?

Q9. Felicity earns $5\frac{1}{4}\%$ commission on her total sales. If she earns \$65.42 in commission, what is the amount of her total sales?

Level 4 — Percentages (ANSWERS)

- Q1. (a) \$2926.95 (b) \$580.83 (c) \$2990.32 (d) \$279.71 (e) \$4040.75 (f) \$4954.35
Q2. (a) \$79.73 (b) \$661.05 (c) \$868.14 (d) \$1114.18 (e) \$1223.86 (f) \$1738.15
Q3. (a) 1% (b) 10% (c) 9% (d) 65% (e) 57% (f) 13%
Q4. (a) \$151.20 (b) \$125.38 (c) \$8650.80 (d) \$14.28 (e) \$650.15 (f) \$61.24
Q5. (a) 1433.33 g (b) 10.37 kg (c) 279.41 mL (d) 19.46 km (e) 0.93 m (f) \$5.58
Q6. Chloride 52.88%, sodium 22.84%, calcium 12.02%, magnesium 10.82%, potassium 1.44%.
Q7. \$5954.40 Q8. 6% p.a. Q9. \$1246.10