

Note: Only turn back to page number if you have difficulty

Page

Q1. Change the following to percentages, rounding off to 2 decimal places where necessary: 36

- (a) 0.135 (b) 1.975 (c) 1.069 (d) 0.0154
 (e) $3\frac{8}{9}$ (f) $\frac{3}{7}$ (g) 0.5975 (h) $\frac{9}{40}$
 (i) $1\frac{2}{3}$ (j) 1.4105 (k) $2\frac{4}{11}$ (l) $\frac{121}{80}$

Q2. Change the following percentages to: (i) fractions (ii) decimals 36

- (a) 15.5% (b) 67.6% (c) 6.4% (d) 105.25%
 (e) $3\frac{1}{4}\%$ (f) $15\frac{1}{5}$ (g) $6\frac{1}{2}\%$ (h) $12\frac{3}{4}\%$

Q3. Find: (a) 36% of \$920 (b) 18% of 2 km (c) 44% of 15 km 37
 (d) 5% of 3.5 L (e) 90% of 3 cm (f) 3% of 6.2 m

Q4. Find the first quantity as a percentage of the second quantity (correct to the nearest whole percentage): 38

- (a) 45 cm, 2.5 m (b) 193 g, 5.9 kg (c) 5.8 cm, 3 m
 (d) \$19, \$121 (e) 7 mm, 3.7 cm (f) 550 mL, 1.6 L

Q5. (a) Increase \$39 by 9% (b) Decrease 519 mL by 21% 39 & 40
 (c) Decrease 5.2 L by 83% (d) Increase 3.9 m by 7%

Q6. Find the discounted price: 41

- (a) \$465, discount 12% (b) \$1265, discount 33%
 (c) \$268, discount 27% (d) \$4938, discount 14%
 (e) \$1595, discount 4% (f) \$735, discount 55%

Q7. Find the commission earned: 42

- (a) \$1650 at 2% (b) \$13 967 at 7% (c) \$4936 at 18%
 (d) \$931 at 5% (e) \$5963 at 13% (f) \$6693 at 30%

Q8. Calculate the profit as a percentage of cost price: 43

- (a) CP \$96, SP \$115 (b) CP \$155, SP \$180
 (c) CP \$250, SP \$375 (d) CP \$58, SP \$112
 (e) CP \$4360, SP \$5100 (f) CP \$1320, SP \$1410

Q9. Find the simple interest earned on the following amounts: 44

- (a) \$3000 at 4% for 2 years (b) \$1750 at $8\frac{1}{4}\%$ for 3 years
 (c) \$65 at $6\frac{1}{2}\%$ for $1\frac{1}{2}$ years (d) \$845 at 7% for $6\frac{1}{2}$ years
 (e) \$390 at 3% for 30 months (f) \$1225 at 5% for 18 months

Level 3 — Percentages — (ANSWERS)

- Q1. (a) 13.5% (b) 397.5% (c) 106.9% (d) 1.54% (e) 388.89% (f) 42.86%
 (g) 59.75% (h) 22.5% (i) 166.67% (j) 141.05% (k) 236.36% (l) 151.25%
- Q2. (a) $\frac{31}{200}$; 0.155 (b) $\frac{203}{300}$; 0.676 (c) $\frac{8}{125}$; 0.064 (d) $1\frac{21}{400}$; 1.0525
 (e) $\frac{13}{400}$; 0.0325 (f) $\frac{19}{125}$; 0.152 (g) $\frac{13}{200}$; 0.065 (h) $\frac{51}{400}$; 0.1275
- Q3. (a) \$331.20 (b) 0.36 km or 360 m (c) 6.6 km (d) 0.175 L or 175 mL
 (e) 2.7 cm (f) 0.186 m or 186 mm
- Q4. (a) 18% (b) 3% (c) 2% (d) 16% (e) 19% (f) 34%
- Q5. (a) \$42.51 (b) 410.01 mL (c) 0.884 L or 884 mL (d) 4.173 m
- Q6. (a) \$409.20 (b) \$847.55 (c) \$195.64 (d) \$4246.68 (e) \$1531.20 (f) \$330.75
- Q7. (a) \$33 (b) \$977.69 (c) \$888.48 (d) \$46.55 (e) \$775.19 (f) \$2007.90
- Q8. (a) 20% (b) 16% (c) 50% (d) 93% (e) 17% (f) 7%
- Q9. (a) \$240 (b) \$433.13 (c) \$6.34 (d) \$384.48 (e) \$29.25 (f) \$91.88