

Chapter 27 Fractions and percentages 2

- Page 115 1. (a) (i) $\frac{67}{100}$, 0.65, 65% (ii) $\frac{31}{100}$, 0.35, 35% (b) (i) $\frac{43}{100}$, 0.43, 43% (ii) $\frac{57}{100}$, 0.57, 57%
 (c) (i) $\frac{4}{10}$, 0.4, 40% (ii) $\frac{6}{10}$, 0.6, 60% (d) (i) $\frac{1}{4}$, 0.25, 25% (ii) $\frac{3}{4}$, 0.75, 75%
 (e) (i) $\frac{2}{5}$, 0.4, 40% (ii) $\frac{3}{5}$, 0.6, 60% (f) (i) $\frac{4}{5}$, 0.8, 80% (ii) $\frac{1}{5}$, 0.2, 20%
 2. (a) 67% (b) 97% (c) 80% (d) 30% (e) 7% (f) 9%
 3. (a) 0.53 (b) 0.6 (c) 0.05 (d) 0.02 (e) 0.9 (f) 1
 4. (a) (i) 0.4 (ii) $\frac{2}{5}$ (b) (i) 0.04 (ii) $\frac{1}{25}$ (c) (i) 0.75 (ii) $\frac{3}{4}$ (d) (i) 0.15 (ii) $\frac{3}{20}$ (e) (i) 0.35 (ii) $\frac{7}{20}$
 (f) (i) 0.65 (ii) $\frac{13}{20}$

5. fraction	$\frac{23}{100}$	$\frac{67}{100}$	$\frac{17}{100}$	$\frac{6}{100}$	$\frac{1}{100}$	$\frac{1}{4}$	$\frac{45}{100}$	$\frac{8}{100}$	$\frac{85}{100}$	$\frac{14}{100}$
decimal	0.23	0.67	0.17	0.06	0.01	0.25	0.45	0.08	0.85	0.14
percentage	23%	67%	17%	6%	1%	25%	45%	8%	85%	14%

- Page 116 1. (a) (i) $\frac{1}{20}$ (ii) 0.15 (iii) 15% (b) (i) $\frac{1}{20}$ (ii) 0.45 (iii) 45% (c) (i) $\frac{1}{5}$ (ii) 0.4 (iii) 40%
 2. (a) 819 (b) 507 (c) 623 3. (a) 329 (b) 470 (c) 141
 4. (a) (i) $\frac{1}{5}$ (ii) 0.4 (iii) 40% (b) (i) $\frac{1}{4}$ (ii) 0.25 (iii) 25% (c) (i) $\frac{1}{20}$ (ii) 0.35 (iii) 35%
 5. (a) 197 (b) 588 (c) 579 (d) 327 (e) 63 (f) 104 (g) 350 (h) 243 (i) 469
 6. Paul = 20% Alan = 25% Joe = 55% 7. Liz = 104 Mike = 91 Frank = 65 8. (i) 253 (ii) 483

- Page 117 1. (a) €49.00 (b) €12.25 (c) 58.45
 2. (a) €216 (b) €129 (c) €292 (d) €413 (e) €14.82 (f) €285 (g) €340 (h) €52.59 3. €99.90 4. €61

- Page 118 1. (a) 35% (b) 60% (c) 15% (d) 65% (e) 16% (f) 28% (g) 52% (h) 36% (i) 74% (j) 85%
 2. (a) > 33% (b) > 39% (c) > 51% (d) > 12%

- Page 119 3. (a) 90% (b) 80% (c) 37.5% (d) 62.5% (e) 87.5% (f) 95% (g) 22.5% (h) 57.5% (i) 56% (j) 77.5%
 4. (a) 33.33% (b) 16.66% (c) 83.33% (d) 8.33% (e) 41.66% (f) 58.33% (g) 91.66% (h) 31.25%
 5. (a) €13 ; €117 (b) €27 ; €243 (c) €32 ; €288 (d) €46 ; €414 (e) 98c ; €8.82 (f) 73c ; €6.57
 (g) 85c ; €7.65 (h) €1.27 ; €11.43 (i) €1.93 ; €17.37 (j) €2.89 ; €26.01 (k) €4.78 ; €43.02
 (l) €5.31 ; €47.79

- Page 120 6. (a) €34 ; €136 (b) €43 ; €172 (c) 69c ; €2.76 (d) €3.37 ; €13.48 (e) €5.91 ; €23.64
 (f) €17.20 ; €68.80 (g) €14.80 ; €59.20 (h) €19.40 ; €77.60
 7. (a) €116 (b) €242 (c) €357 (d) €504 (e) €15.05 (f) €66.23 (g) €231 (h) €6.29
 8. (a) €651 (b) €1209 (c) €871 (d) €13.23 (e) €10.71 (f) €9.24
 9. 776m 10. 9039 11. €3410