

Worked solutions

Worked solutions have been provided for all exercises and assessments from the textbook except for questions that do not require working or where the working has already been provided in the answer section of the textbook.

Exercise 1.2.4

- 1
 - a $60 \times 20 = 1200$
 - b $300 \times 10 = 3000$
 - c $50 \times 60 = 3000$
 - d $5000 \times 30 = 150\,000$
 - e $0.8 \times 1 = 0.8$
 - f $0.2 \times 500 = 100$
- 2
 - a $4000 \div 20 = 200$
 - b $8000 \div 40 = 200$
 - c $900 \div 30 = 30$
 - d $5500 \div 10 = 550$
 - e $50 \div 0.1 = 500$
 - f $600 \div 0.2 = 3000$
- 3
 - a $80 + 50 = 130$
 - b $170 - 90 = 80$
 - c $3 + 3 = 1$
 - d $80 \div 20 = 4$
 - e $\frac{4 \times 800}{16} = \frac{3200}{16} = 200$
 - f $\frac{10^3}{2^2} = \frac{1000}{4} = 250$
- 5
 - a $20\text{ m} \times 6\text{ m} = 120\text{ m}^2$
 - b $(10\text{ m} \times 5\text{ m}) - (3\text{ m} \times 2\text{ m})$
 $= 50 - 10 = 40\text{ m}^2$
 - c $(30\text{ cm} \times 15\text{ cm}) - (10\text{ cm} \times 4\text{ cm})$
 $= 450 - 50 = 400\text{ cm}^2$
- 6
 - a $10\text{ cm} \times 10\text{ cm} \times 2\text{ cm} = 200\text{ cm}^3$
 - b $20\text{ cm} \times 40\text{ cm} \times 5\text{ cm} = 4000\text{ cm}^3$
 - c $(20\text{ cm} \times 5\text{ cm} \times 10\text{ cm}) + ((24 - 4)\text{ cm} \times 10\text{ cm} \times 5\text{ cm}) = 2000\text{ cm}^3$

Exercise 1.2.5

- 1
 - a 984 is 980 to two significant figures.
 Percentage error $= \frac{4}{984} \times 100 = 0.4\%$

- b 2450 is 2500 to two significant figures.
 Percentage error $= \frac{50}{2450} \times 100 = 2.04\%$
- c 504 is 500 to two significant figures.
 Percentage error $= \frac{4}{504} \times 100 = 0.8\%$

- 2 First player's percentage error is
 $\frac{250 - 240}{240} \times 100 = \frac{10}{240} \times 100 = 4.2\%$
 Second player's percentage error is
 $\frac{258 - 250}{258} \times 100 = \frac{8}{258} \times 100 = 3.1\%$
 So the second player had the smaller percentage error.
- 3
 - a The maximum possible height is
 $9500 \times 1.025 = 9737.5\text{ m}$
 - b The minimum possible height is
 $9500 \times 0.975 = 9262.5\text{ m}$
- 4
 - a Actual speed is $\frac{120}{1.015} = 118.2\text{ km h}^{-1}$
 - b Percentage error is
 $\frac{180 - 175}{175} \times 100 = \frac{5}{175} \times 100 = 2.9\%$

Exercise 1.3.1

- 4
 - a $200 \times 3000 = 2 \times 10^2 \times 3 \times 10^3$
 $= 6 \times 10^5$
 - b $6000 \times 4000 = 6 \times 10^3 \times 4 \times 10^3$
 $= 24 \times 10^6$
 $= 2.4 \times 10^7$
 - c $7\text{ million} \times 20 = 7 \times 10^6 \times 2 \times 10^1$
 $= 14 \times 10^7$
 $= 1.4 \times 10^8$
 - d $500 \times 6\text{ million} = 5 \times 10^2 \times 6 \times 10^6$
 $= 30 \times 10^8$
 $= 3 \times 10^9$
 - e $3\text{ million} \times 4\text{ million} = 3 \times 10^6 \times 4 \times 10^6$
 $= 12 \times 10^{12}$
 $= 1.2 \times 10^{13}$
 - f $4500 \times 4000 = 4.5 \times 10^3 \times 4 \times 10^3$
 $= 18 \times 10^6$
 $= 1.8 \times 10^7$

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A Loxley



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