First edition - 2023 fifth reprint

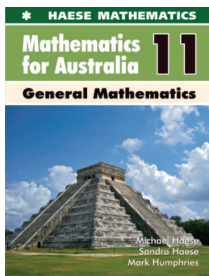**The following erratum was made on 08/Jul/2024**

page 79 **SECTION 3F** Interest explanation should read:

INTEREST

Each month, cardholders receive a statement listing the purchases made in the last 30 days. If the purchases are paid for within 25 days of the statement date, no interest is paid on the purchases.

If purchases are not paid within 25 days of the statement date, the cardholder is charged interest from the **end of the interest free period**. Interest is charged on the daily balance until the item is paid for.

The following errata were made on 14/Jul/2023

page 79 **SECTION 3F** Interest explanation and Example 18 should read:

INTEREST

Each month, cardholders receive a statement listing the purchases made in the last 30 days. If the purchases are paid for within 25 days of the statement date, no interest is paid on the purchases.

If purchases are not paid within 25 days of the statement date, the cardholder loses the benefit of the interest free period and is charged interest from the **end of the interest free period**. Interest is charged on the daily balance until the item is paid for.

Example 18 🔊 **Self Tutor**

Jessarose purchased a laptop for $450 on June 15. She used her Visa card with interest rate 16.9% p.a. Her statement showing this purchase arrives on June 27, and she is given 25 days until July 22 to pay the balance without any interest charges.

a What is the effective "interest free" period on the laptop?

b Calculate the interest charged if she pays the balance:
  i before July 22   ii on July 25.

---

a Remainder of June: $30 - 15 = 15$ days

  July: $= 22$ days

  Effective interest free period $= 37$ days

b i If the $450 is paid before July 22, no interest is charged.

  ii If the $450 is paid on July 25, interest is charged from July 22.

  Interest $= \$450 \times 0.169 \times \frac{3}{365}$ {July 22 - July 25 $= 3$ days}

  $= \$0.63$

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page 441 **ANSWERS EXERCISE 3F.1** questions **1 b ii**, **2**, **3 b**, and **4** should read:

1 a September 22   **b i** $0   **ii** $2.76

2 $268.70

3 a i 36 days   **ii** 30 days   **b i** $0.43   **ii** $0.04

4 $2715.00

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page 441 **ANSWERS REVIEW SET 3A** question **8 b** should read:

8 a i 39 days   **ii** 35 days   **b i** $0.49   **ii** $0.75

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page 441 **ANSWERS REVIEW SET 3B** questions **7 b ii** and **iii** should read:

7 a 38 days   **b i** $0   **ii** $0.12   **iii** $0.74
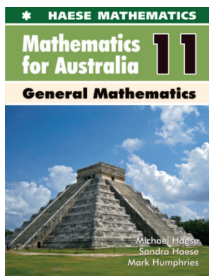
First edition - 2017 third reprint

The following errata were made on 23/Nov/2018

page 344 **EXERCISE 12C** question **5 d** should read:

5   d Find the life expectancy of an Australian female who smokes 25 cigarettes per day.

page 441 **ANSWERS EXERCISE 3D.1** question **4 b** should read:

4   a $2.48   **b** $2.05

page 442 **ANSWERS EXERCISE 4F.1** questions **1 b** and **5** should read:

1   a $1444.50   **b** $237.96   **c** $3734.90   **2** $279

3   a $1229.54   **b** $\approx 9.44\%$ **4** $\approx 40.3\%$ **5** $2.43

page 443 **ANSWERS EXERCISE 5D.2** question **10 b** should read:

10   a Tasty biscuits saving should be 37 cents.   **b** $3.32

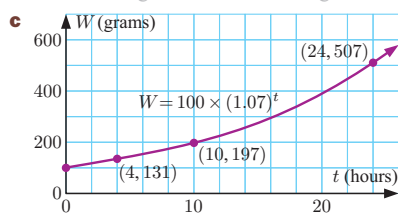page 443 **ANSWERS REVIEW SET 5B** question **5 a** should read:

5   a $98.03   **b** $7.20

page 448 **ANSWERS EXERCISE 9A.2** question **2 a** should read:

2   a Select 5 random numbers between 1 and 366 inclusive. For example, March 5, October 2, July 21, June 13, January 20.

page 463 **ANSWERS EXERCISE 13E.1** question **1 c** should show correct function plot:

1   a 100 grams

   b   i ≈ 131 g   **ii** ≈ 197 g   **iii** ≈ 507 g

   c

page 466 **ANSWERS EXERCISE 14E** question **5 a** should read:

5   a   C = cost matrix   **I** = income matrix

$$= \begin{bmatrix} 85 & 120 & 130 \end{bmatrix} \qquad = \begin{bmatrix} 125 & 195 & 225 \end{bmatrix}$$
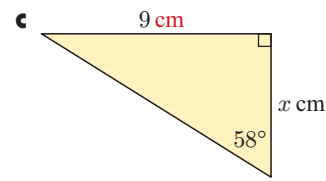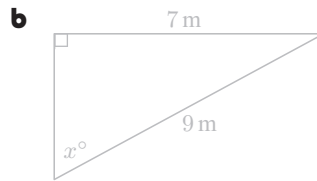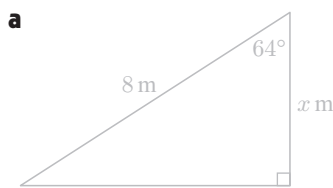
N = numbers matrix

$$= \begin{bmatrix} 15 & 12 & 13 & 11 & 14 & 16 & 8 \\ 4 & 3 & 6 & 2 & 0 & 4 & 7 \\ 3 & 1 & 4 & 4 & 3 & 2 & 0 \end{bmatrix}$$

Profit = $7125 for the week

The following erratum was made on 18/Jul/2018

3 Find x:

a

8 m
64°
x m

b

7 m
9 m
$x°$

c

9 cm
x cm
58°

The following erratum was made on 15/May/2018

ROUNDING OFF TO SIGNIFICANT FIGURES

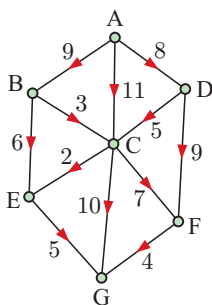To round off to n significant figures, we look at the $(n+1)$th digit.

- If it is 0, 1, 2, 3, or 4 we do not change the nth digit.
- If it is 5, 6, 7, 8, or 9 we increase the nth digit by 1.

We delete all digits after the nth digit, replacing by 0s if necessary.

The following errata were made on 27/Feb/2018

7 Find the longest path from A to G in the network given.

4 **a** For an obtuse angle, the point P on a unit circle will be to the left of the y-axis, where all x-coordinates are negative.
∴ the cosine of an obtuse angle is negative.
b For an obtuse angle, the point P on a unit circle will be above the x-axis, where all y-coordinates are positive.
∴ the sine of an obtuse angle is positive.

5 **b** 1310 m

The following errata were made on 10/Jan/2018

1 $15 599.10   **2** $7499.80   **3** $23 235.18

3 **a** $1229.54   **b** ≈ 9.44%   **4** ≈ 40.3%   **5** $2.42

First edition - 2016 second reprint

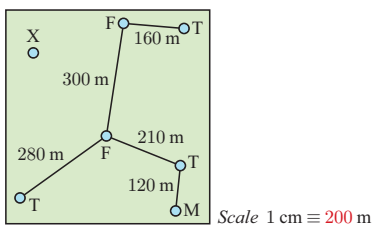**The following errata were made on 7/Dec/2016**

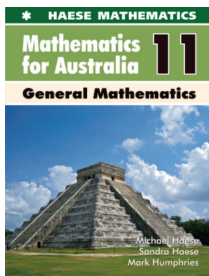page 468 **ANSWERS EXERCISE 15C.2** question **5 b i** should read:

5   b   i 49 min   **ii** 36 min   **iii** 65 min

page 469 **ANSWERS EXERCISE 15E.1** questions **2** and **5 a** should read:

2 AF, BF, CF, CE, and DE

5   a 1070 m

Scale 1 cm ≡ 200 m

First edition - 2016 first reprint

The following erratum was made on 08/Aug/2016

page 30 **CHAPTER 2 SECTION A** should cite correct URL:

For more information on SI units, visit   www.bipm.org/en/publications/si-brochure/

The following erratum was made on 24/May/2016

page 340 **CHAPTER 12 SECTION B** should plot the correct points:

B   GRAPHING LINEAR RELATIONSHIPS

A table of values can only display a small number of the possible values for each variable. To see a more complete picture of the relationship, we can plot the possible values on a **graph**.

For Ted's taxi service in the **Opening Problem**, the independent variable *distance travelled* is on the horizontal axis, and the dependent variable *cost* is on the vertical axis.

Using the table of values, we can plot the points $(0, 5)$, $(1, 7)$, $(2, 9)$, $(3, 11)$, and $(4, 13)$.

Since the variables are linearly related, we can draw a **straight line** through the points.

We can use the graph to find values of the variables not given in the table. For example, the cost of a 3.5 km ride is $12.
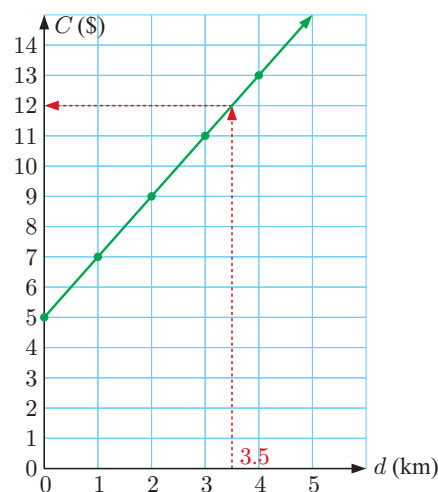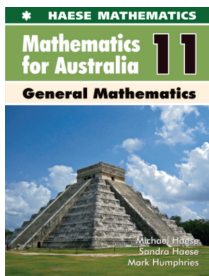
ERRATA

MATHEMATICS FOR AUSTRALIA 11

General Mathematics

First edition - 2015 initial print

The following errata were made on or before 11/Jan/2016

page 63 **CHAPTER 3 ACTIVITY 3** spreadsheet should have another formula in cell D8:

	A	B	C	D	E	F	G	H
1		**Simple Interest**				**Compound Interest**		
2								
3	**Principal**	$5000			**Principal**	$5000		
4	**Rate (p.a.)**	6%			**Rate (p.a.)**	6%		
5								
6	**Period**	**Principal**	**Interest**	**Balance**	**Period**	**Principal**	**Interest**	**Balance**
7	1	=B$3	=B7*B$4	=B7+C7	1	=F3	=F7*F$4	=F7+G7
8	=A7+1			=D7+C8	=E7+1	=H7		
9								
10								
11		fill down				fill down		

page 96 **CHAPTER 4 ACTIVITY 1** instructions part **2** should read:

2 Highlight the formulae in B6 to B9, and fill across to column C.
You should have found the total cost of buying the Westfield and QBE shares.

page 97 **CHAPTER 4 ACTIVITY 2** instructions part **2** should read:

2 Highlight the formulae in B6 to B9, and fill across to column C.
You should have found the total proceeds when selling the Westfield and QBE shares.

page 235 **CHAPTER 8 REVIEW SET 8B** question **8** should read:

8 Find x in each pair of similar solids:

page 442 **ANSWERS EXERCISE 5A.3** question **3** should read:

3 $92 101

page 443 **ANSWERS REVIEW SET 5B** question **4** should be rounded to dollar values:

4 a i $924 **ii** $1498
b i $32 **ii** $22