

ERRATA

Mathematics for Australia 8

First Edition - 2020 fourth reprint

The following errata were made on 14/Jun/2022

Adobe Flash Player has reached End-of-Life. Demo icons that are no longer supported have been removed from:

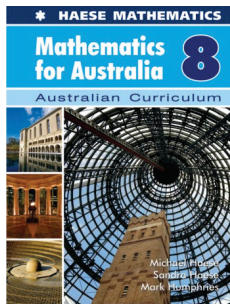
page 362

page 363

page 364

The following erratum was made on 07/Jan/2021

page 158 **CHAPTER 8 SECTION D**, remove DEMO icon.



ERRATA

Mathematics for Australia 8

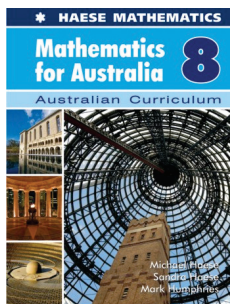
First Edition - 2017 third reprint

The following erratum was made on 15/Feb/2019

page 239 **CHAPTER 11 ACTIVITY 2**, original link no longer works, instead use:

A map which contains time zones can be viewed at

https://www.cia.gov/library/publications/the-world-factbook/graphics/ref_maps/physical/pdf/standard_time_zones_of_the_world.pdf



ERRATA

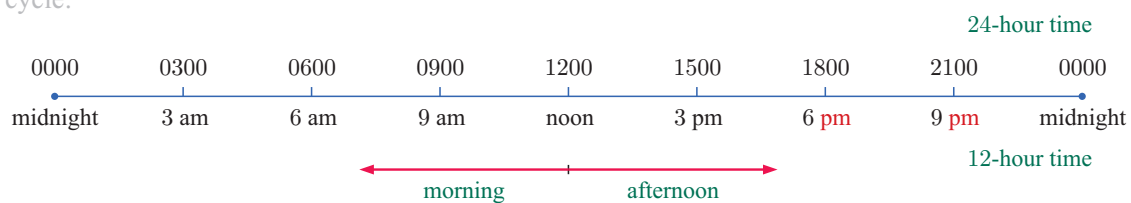
Mathematics for Australia 8

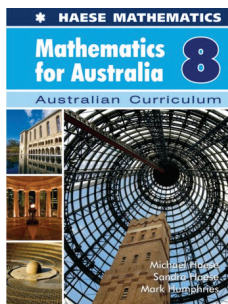
First Edition - 2014 second reprint

The following erratum was made on 18/Aug/2017

page 240 **CHAPTER 11 SECTION I**, first diagram should have correct 12-hour times for 1800 and 2100:

24-hour time indicates the amount of time that has elapsed since midnight. It operates on a 24-hour cycle:





ERRATA

Mathematics for Australia 8

First Edition - 2011

The following errata were made before 18/Aug/2017

page 20 **CHAPTER 1 SECTION E**, Example of another way to work out LCMs should be included:

Another method for finding lowest common multiples is to write each number as the product of its prime factors. By writing these products one above the other, we can include in the LCM only those factors that are necessary.

Example 15

Self Tutor

Find the LCM of 28 and 35.

The prime factors of 28 are $2 \times 2 \times 7$

The prime factors of 35 are 5×7

$\therefore$ prime factors of LCM are $2 \times 2 \times 5 \times 7$ $\therefore$ LCM = 140

page 20 **CHAPTER 1 EXERCISE 1E**, Insert the following questions and existing questions **6** and **7** become **7** and **8**:

6 Find the LCM of: **a** 8 and 18 **b** 24 and 15 **c** 3, 7, and 8

page 40 **CHAPTER 2 EXERCISE 2E**, Question **9** should be marked as a red extension question.

page 43 **CHAPTER 2 PRACTICE TEST 2C**, Question **1** should read:

- 1** In one week, an inspector visited 56 hotels.
12 of the hotels had fleas, 7 of the hotels had rats, and 3 of the hotels had both pests.
 - a** Represent this information on a Venn diagram.
 - b** How many hotels had:
 - i** neither fleas nor rats
 - ii** rats, but not fleas
 - iii** either fleas or rats, but not both?

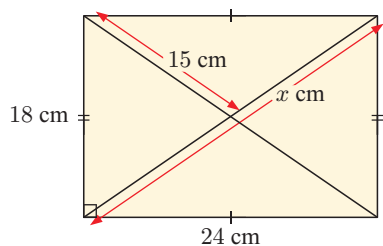
page 123 **CHAPTER 6 PRACTICE TEST 6B**, Question **7 a** should read:

7 Express as a power of 3:

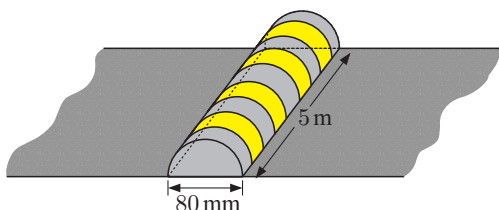
($\frac{3^3}{3^2 \times 3^4}$ resulted in a negative power which had not been covered yet.)

a $\frac{3^2 \times 3^4}{3^3}$

b 1



An updated printable test for chapter 8 has been included in this file.



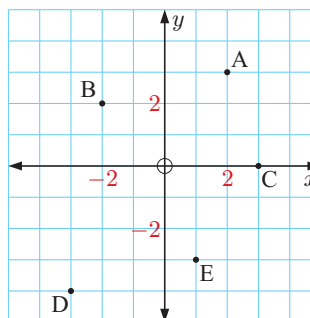
3 Kangaroo Creek Reservoir in South Australia has a storage capacity of 19 000 ML.

C LINEAR RELATIONSHIPS

Consider the pattern:



1 State the coordinates of the points A, B, C, D, and E.

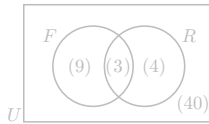


6 a 72 b 120 c 168
7 9 **8** 1

(only to match change in questions)

page 411 **ANSWERS PRACTICE TEST 2C**, Answer **1 b i** should be updated to answer the change in the question:

1 a



b i 40 hotels

ii 4 hotels

iii 13 hotels

page 417 **ANSWERS PRACTICE TEST 6B**, Answer **5 b** should read:

b 1 ($y \neq 0$)

page 417 **ANSWERS PRACTICE TEST 6B**, Answer **7 a** should read:

7 a 3^3 **b** 3^0

(only to match change in question)

page 420 **ANSWERS EXERCISE 8A**, Answer **6 f** should read:

f $x = 35$ {alternate angles}

page 421 **ANSWERS REVIEW SET 8**, Answer **2 c** should read:

2 c $a = 55$ {vertically opposite angles}

$b = 80$ {angles on a straight line}

$c = 45$ {angle sum of triangle}

page 421 **ANSWERS PRACTICE TEST 8B**, Answer **6** and **9 b** should read:

6 $x = 50$ {opposite angles of a parallelogram, angles on a line}

9 b a rhombus

page 421 **ANSWERS PRACTICE TEST 8C**, Answer **2 d** should read:

d $\widehat{EAB} + \widehat{ABC} = 70^\circ + (40^\circ + 70^\circ) = 180^\circ$
[BC] $\parallel$ [AE] {equal alternate angles}

page 422 **ANSWERS EXERCISE 9E.2**, Answer **5 d** should read:

d ≈ 1.41 cm

page 422 **ANSWERS PRACTICE TEST 9B**, Answer **8** should read:

8 \$570

page 424 **ANSWERS EXERCISE 11B.3**, Answer **4** should read:

4 0.0126 m^3

page 425 **ANSWERS PRACTICE TEST 11C**, Answer **3** should read:

3 a i 19 000 000 kL **ii** 19 000 000 000 L **b** $19\,000\,000 \text{ m}^3$
c i 1 000 000 m^2 **ii** 19 m **d** 19 000 000 t

(only to match change in question)

page 426 **ANSWERS EXERCISE 12A**, Answer **3** should read:

3 A - first, B - fourth, C - on x -axis, D - third, E - second,
F - on y -axis, G - first, H - third

page 435 **ANSWERS PRACTICE TEST 14C**, Answer **2 e** should read:

e at A, C, D, and the beach

page 440 **ANSWERS EXERCISE 17C**, Answer **5 a ii** and **g i** should read:

a ii $\widehat{PRQ} = \widehat{ACB}$, $BC = QR$, and $AB = PQ$

g i $\triangle ABC \cong \triangle DFE$ {AAcorS}

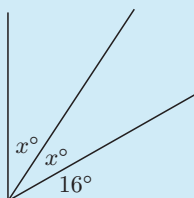
Practice test 8A

Multiple Choice

1 An angle measuring 182° is:

- A** an acute angle **B** an obtuse angle **C** a right angle
D a straight angle **E** a reflex angle

2

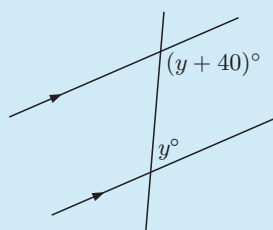


The value of x in the given figure is:

- A** 35° **B** 36° **C** 37°
D 38° **E** 39°

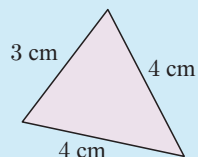
3 The value of y in the given figure is:

- A** 55° **B** 60° **C** 65°
D 70° **E** 75°

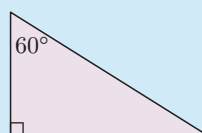


4 Which of the following is *not* an isosceles triangle?

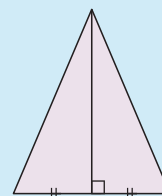
A



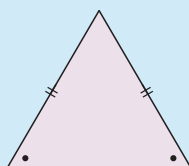
B



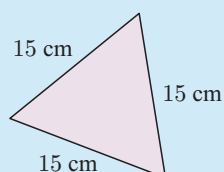
C



D

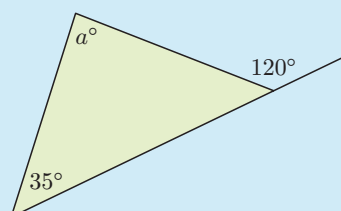


E



5 The value of a is:

- A** 75° **B** 80° **C** 85°
D 90° **E** 95°



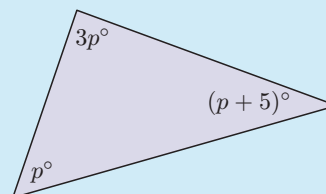
6 The following figure represents a:

- A** parallelogram **B** rectangle
C rhombus **D** square
E kite



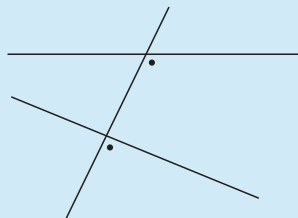
7 The value of p in the given triangle is:

- A** 30° **B** 35° **C** 40°
D 45° **E** 50°



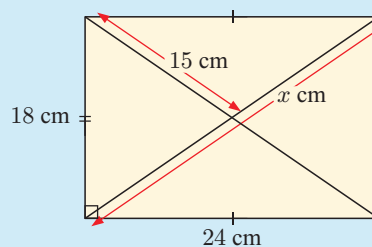
8 The angles shown are:

- A** vertically opposite
B supplementary
C complementary
D corresponding
E co-interior



9 The value of x in the given figure is:

- A** 18 cm **B** 24 cm
C 15 cm **D** 36 cm
E 30 cm



10 The value of x in the given figure is:

- A** 90 **B** 40
C 120 **D** 70
E 110

