

ERRATA

Mathematics for Australia 8

2011 First Edition

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:
- neither fleas nor rats
 - rats, but not fleas
 - either fleas or rats, but not both?

page 44 **CHAPTER 2 PRACTICE TEST 2C**, Question **3 e** should read:

- e** How many channels will Tom and Margot buy?

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

- 7** Express as a power of 3:

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

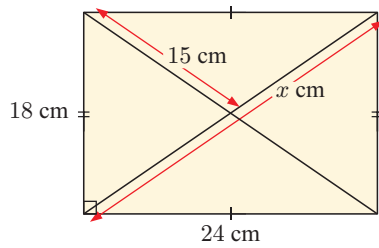
b 1

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

page 131 CHAPTER 7 EXERCISE 7C, Question 6 d should read:

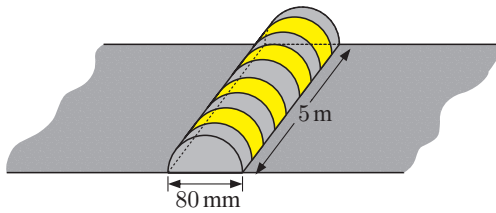
d Did the operations in b and c change the solution to the equation?

page 165 (CD) CHAPTER 8 PRACTICE TEST 8A, Question 9 diagram should be:



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

page 228 CHAPTER 11 EXERCISE 11B.3, Question 4 diagram should be:



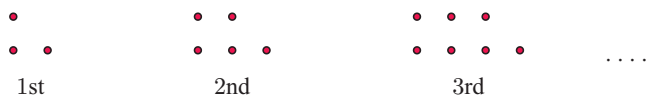
page 244 CHAPTER 11 PRACTICE TEST 11C, Line 1 of question 3 should read:

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

page 251 CHAPTER 12 SECTION C, Pattern underneath title bar should match the data that follows:

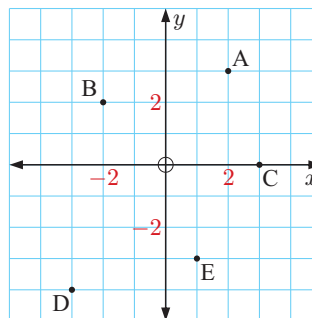
C LINEAR RELATIONSHIPS

Consider the pattern:



page 263 CHAPTER 12 REVIEW SET 12, Graph scale should be included:

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



page 408 ANSWERS EXERCISE 1E, Answers 6 and 7 become 7 and 8, and answers to new question 6 are:

6 a 72 b 120 c 168
7 9 8 1

page 408 ANSWERS EXERCISE 2A, Answer **3 b ii** should read:

ii true

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 413 ANSWERS EXERCISE 4A, Answer **5 d** should read:

d $4pq^2$

page 416 ANSWERS PRACTISE TEST 6B, Answer **5 b** should read:

b 1 ($y \neq 0$)

page 416 ANSWERS PRACTISE 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 PRACTISE 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 PRACTISE 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 PRACTISE 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 PRACTISE 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 $1\,000\,000 \text{ m}^2$ **ii** 19 m **d** $19\,000\,000 \text{ t}$

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 PRACTISE 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}

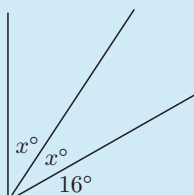
Practice test 8A

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

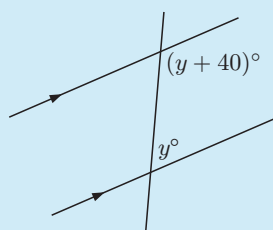


The value of x in the given figure is:

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

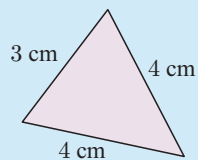
3 The value of y in the given figure is:

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

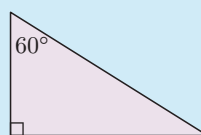


4 Which of the following is *not* an isosceles triangle?

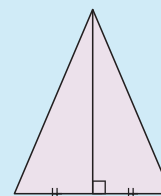
A



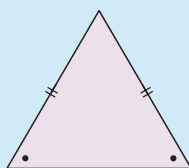
B



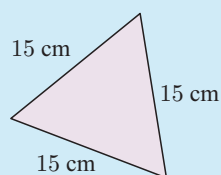
C



D

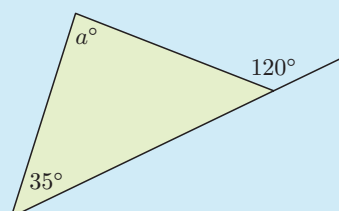


E



5 The value of a is:

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



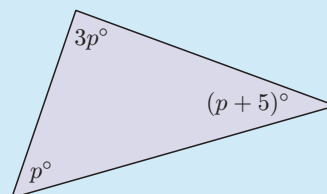
6 The following figure represents a:

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



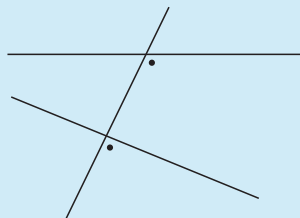
7 The value of p in the given triangle is:

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



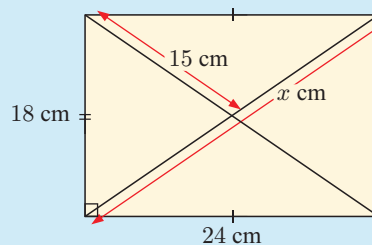
8 The angles shown are:

- 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

