

## ERRATA

### Mathematics for Australia 9

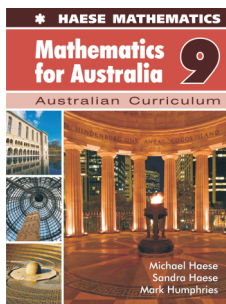
First edition - 2017 second reprint

The following erratum was made on 25/Jul/2017

page 471 ANSWERS EXERCISE 10F.1, Question **2** should have correct question labels:

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**2 a i A and F**      **ii B and D**      **b E**



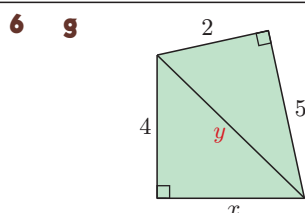
## ERRATA

### Mathematics for Australia 9

First edition - 2012 first print

The following errata were made on or before 24/May/2016

page 153 **CHAPTER 8 EXERCISE 6D**, Question **6 g** should have labelled unknown diagonal:



page 161 **CHAPTER 8 Section H CUBE ROOTS**, Explanation for finding the cube root of 27 should read:

To find the cube root of 27, we need to find the number which, when multiplied by itself **twice**, gives 27.

page 169 **CHAPTER 9 EXERCISE 9A**, Question **9** should clarify:

- 9** An office building has 12 floors **above ground level**. There are 18 steps between each floor, and each step is 17.8 cm high. How many metres does a worker climb if he walks up to the top floor?

page 209 **CHAPTER 10 EXERCISE 10E**, Question **6** should become **7** and have in its place:

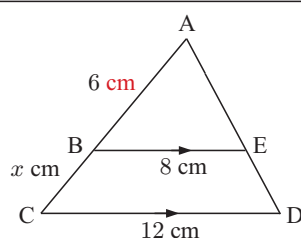
- 6** Consider the line  $y = 4 + x$ .
- a** Find the  $y$ -coordinate of the point on the line with  $x$ -coordinate 0.
  - b** Find the  $x$ -coordinate of the point on the line with  $y$ -coordinate 0.
  - c** Hence state the axes intercepts of the line.
- 7** Find  $c$  given that:
- a**  $(2, 9)$  lies on the line with equation  $y = 4x + c$
  - b**  $(-3, 0)$  lies on the line with equation  $y = 2x + c$
  - c**  $(-1, -8)$  lies on the line with equation  $y = -3x + c$
  - d**  $(6, -\frac{1}{2})$  lies on the line with equation  $y = \frac{1}{2}x + c$ .

CD **CHAPTER 14 PRACTICE TEST 14A**, Questions **8** and **9** should use the data:

Mark worked overtime every work day for 10 days. The number of minutes of overtime he worked each day were:

45 15 60 30 40 55 10 25 45 **40**

page 352 **CHAPTER 16 EXERCISE 16C.2**, Question **1 g** diagram should be:

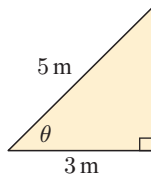


- 8 Hence, determine the positions of X and Y on the vertical edges.  
Compare your answers with your estimates in 4.

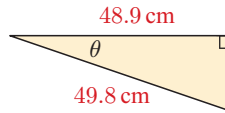
CD CHAPTER 17 PRACTICE TEST 17A, Question 4 diagram should be:

- 4 Which of the following is not a valid triangle?

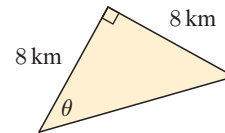
A



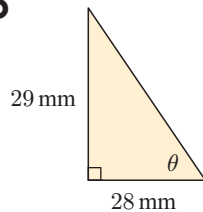
B



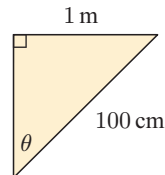
C



D



E



\*The 1st edition set of triangles had 2 invalid triangles: B & E

page 440 CHAPTER 21 EXERCISE 21A.2, Question 4 d should read:

- 4 d The point  $F(n, 29)$  lies on  $y = 2x^2 + 20x + 7$ . Find  $n$ .

page 441 CHAPTER 21 EXERCISE 21A.3, Question 1 a should read:

- 1 Suppose  $y = x^2 + 2x + 3$ . Find the value(s) of  $x$  for which:

a  $y = 3$

b  $y = 2$

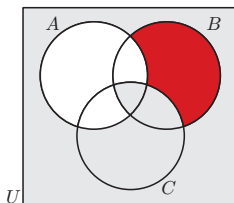
c  $y = 18$

page 450 CHAPTER 21 EXERCISE 21D, Question 14 should read:

- 14 T is a mobile telephone tower in a remote country town. Its region of reception is defined by the inequality  $(x - 3)^2 + (y - 2)^2 \leq 40$ . David's car has broken down on the highway at grid reference D(9, 5). Each grid unit is equivalent to 1 km.

page 462 ANSWERS EXERCISE 4E.2, Question 5 i should also have shaded:

5 i



page 466 ANSWERS REVIEW SET 6, Question 7 c should read:

- 7 c 1 hour

page 466 ANSWERS EXERCISE 7A.1, Question 2 g should read:

2 g  $x = \frac{17}{8}$

page 467 ANSWERS EXERCISE 7B, Questions 1 c and 5 g should read:

1 a  $x = \frac{10}{9}$

b  $x = 2$

c  $x = -3$

5 e  $x = -25$

f  $x = \frac{4}{17}$

page 468 ANSWERS EXERCISE 8D, Question 6 g should include  $y$ -value

6 a  $x = \sqrt{5}, y = \sqrt{6}$

b  $x = 2, y = \sqrt{13}$

c  $x = 5, y = \sqrt{26}$

d  $x = 4, y = \sqrt{33}$

e  $x = 2\sqrt{51}$

f  $x = \sqrt{37}$

g  $x = \sqrt{13}, y = \sqrt{29}$

h  $x = \sqrt{2}, y = \sqrt{3}, z = 2$

i  $x = \sqrt{113}$

page 475 ANSWERS EXERCISE 12B, Questions 7 j and h should be swapped:

7 h  $(n - 3)(24 - 7n)$

j  $-2(x - 14)(x + 19)$

page 476 **ANSWERS EXERCISE 12F**, Question **2 h** should read:

**2 h**  $d(d-3)(d-8)$

page 479 **ANSWERS EXERCISE 14D.1**, Question **13** should read:

**13 a**  $M = \frac{30S + 31O + 30N}{91}$       **b**  $\approx 26.5^\circ\text{C}$

page 483 **ANSWERS EXERCISE 15C**, Question **7** should read:

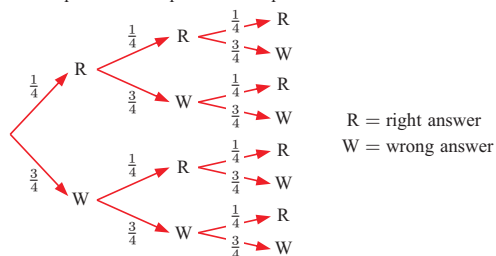
**7** Mavis  $\approx 0.0402$

page 483 **ANSWERS EXERCISE 15D**, Questions **1 c** and **d** should read:

- 1 a** {BB, BG, GB, GG}  
**b** {ABC, ACB, BAC, BCA, CAB, CBA}  
**c** {HHHH, HHHT, HHTH, HTHH, THHH, HHTT, HTHT, THHT, HTTH, THTH, TTHH, HTTT, THTT, TTHT, TTTH, TTTT}  
**d** {ABCD, ABDC, ACBD, ACDB, ADBC, ADCB, BACD, BADC, BCAD, BCDA, BDAC, BDCA, CABD, CADB, CBAD, CBDA, CDAB, CDBA, DABC, DACB, DBAC, DBCA, DCAB, DCBA}

page 485 **ANSWERS REVIEW SET 15**, Question **10 a** should read:

**10 a**      1st question   2nd question   3rd question

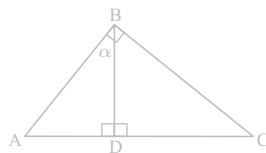


page 485 **ANSWERS PRACTICE TEST 15B**, Question **5 b** should read:

**5 a**  $\approx 0.269$       **b**  $\approx 0.548$

page 486 **ANSWERS EXERCISE 16C.1**, Question **2** should read:

- 2**  $\triangle ABD$  and  $\triangle ABC$  share angle A, and both have a right angle,  $\therefore$  similar.  
 $\triangle BCD$  and  $\triangle ABC$  share angle C, and both have a right angle,  $\therefore$  similar.



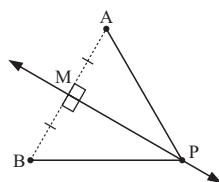
Let  $\widehat{ABD}$  be  $\alpha$ .  $\therefore \widehat{DBC} = 90 - \alpha$ , and  $\widehat{BAD} = 90 - \alpha$   
 $\therefore \widehat{BAD} = \widehat{DBC}$  and  $\widehat{ADB} = \widehat{BDC}$  so  $\triangle ABD$  and  $\triangle BCD$  are similar.

page 487 **ANSWERS EXERCISE 16G**, Questions **6 b** and **7** should read:

- 6 a**  $BM = CN$  {given}, hypotenuse BC is common  
 $\therefore \triangle BCM \cong \triangle CBN$  {RHS}

- b** From **a**,  $\widehat{BCM} = \widehat{CBN}$   
 $\therefore \widehat{BCA} = \widehat{CBA}$   
 $\therefore \triangle ABC$  is isosceles {equal base angles}

- 7** Let P be any point on the perpendicular bisector, and M be the midpoint of [AB].  
In  $\triangle AMP$  and  $\triangle BMP$ , [MP] is common,  $\widehat{AMP} = \widehat{BMP}$ , and  $AM = BM$  {given}.  
 $\therefore \triangle AMP \cong \triangle BMP$  {SAS}  
 $\therefore AP = BP$  {corresponding sides}



page 487 **ANSWERS PRACTICE TEST 16B**, Question **3** should read:

**2**  $x = 2.8$       **3**  $\triangle$ s QRS and TRP are similar,  $x = 12$

page 492 **ANSWERS EXERCISE 19C.1**, Question **1 c**:

There should be no point marked at (2, 42)

page 494 **ANSWERS PRACTICE TEST 20C**, Question **5 c** should read:

**5 b**  $x(x+2) = 2x^2 - 3$       **c** 3 and 5