

ERRATA

Mathematics for Australia 10

2013 First Edition, initial print

The following errata were made on or before 16/Jul/2015

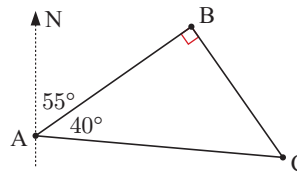
page 56 CHAPTER 3 PRACTICE TEST 3C, question 1 b should read:

1 b Copy and complete: $(\sqrt{3})^n$ is an integer if n is

page 249 CHAPTER 12 EXERCISE 12F, question 3 should have right angle in diagram:

3 Find the bearing of:

- | | |
|------------|-------------|
| a B from A | b A from B |
| c C from A | d A from C |
| e C from B | f B from C. |

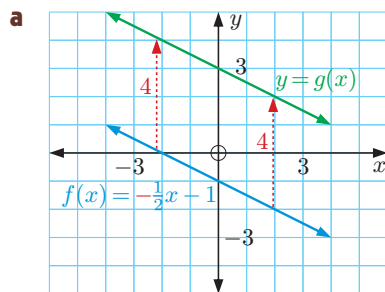


page 314 CHAPTER 15 EXAMPLE 6, last line of the solution should read:

Check: In (1): $29 + 16 = 45$ ✓ In (2): $29 - 16 = 13$ ✓

page 354 CHAPTER 17 EXERCISE 17D.1, question 4 a should have correct label for $f(x)$:

4 Find $g(x)$ in the following graphs:



page 435 ANSWERS PRACTICE TEST 4C, Question 3 c ii should not cancel a division by 0:

- | | | |
|---------------------------|----------------------|-------------------------|
| 3 a i $\frac{a^2 - 9}{a}$ | ii $\frac{3 - a}{3}$ | b $-\frac{3(a + 3)}{a}$ |
| c i -12 | ii undefined | iii $-\frac{24}{5}$ |

page 437 ANSWERS REVIEW SET 5, question 9 c should have correct inequality:

9 c $x \leq -\frac{4}{7}$



page 439 ANSWERS EXERCISE 7A.2, question 2 f should read:

- | | | |
|-----------------------|---------------------|---------------------|
| 2 d ≈ 85.7 cm | e ≈ 22.8 cm | f ≈ 40.7 cm |
|-----------------------|---------------------|---------------------|

page 439 ANSWERS EXERCISE 7C.1, question 2 should note units:

$$2 \quad A = 2(ab + bc + ac) \text{ units}^2$$

page 439 ANSWERS EXERCISE 7D.2, question 1 f should be an approximation:

$$1 \quad \mathbf{d} \approx 226 \text{ cm}^3 \quad \mathbf{e} \approx 177 \text{ m}^3 \quad \mathbf{f} \approx 183 \text{ cm}^3$$

page 440 ANSWERS EXERCISE 7D.2, question 9 b should not claim to be so precise:

$$9 \quad \mathbf{a} \approx 2378 \text{ cm}^3 \quad \mathbf{b} \approx 6 \text{ kg} \quad \mathbf{10} \quad 15\,915 \text{ handles}$$

page 440 ANSWERS PRACTICE TEST 7C, questions 3 b and 4 c should read:

$$3 \quad \mathbf{a} \quad \mathbf{i} \quad \frac{x}{2} \text{ m} \quad \mathbf{ii} \quad \frac{x}{4} \text{ m} \quad \mathbf{b} \quad \text{Show both areas are } \frac{\pi x^2}{4} \text{ m}^2.$$

$$4 \quad \mathbf{a} \approx 3848 \text{ cm}^3 \quad \mathbf{b} \approx 3.85 \text{ L} \quad \mathbf{c} \approx 2278 \text{ cm}^3$$

page 441 ANSWERS EXERCISE 8D, question 10 c should include:

$$10 \quad \mathbf{b} \quad b = \frac{6g}{g-1} \quad \mathbf{c} \quad 0g \quad 0b, \quad 2g \quad 12b, \quad 3g \quad 9b, \quad 4g \quad 8b, \quad 7g \quad 7b$$

page 442 ANSWERS PRACTICE TEST 8B, question 10 b should read:

$$10 \quad \mathbf{b} \quad S_1 = 2 = 1 \times 2 \\ S_2 = 6 = 2 \times 3 \\ S_3 = 12 = 3 \times 4 \\ S_4 = 20 = 4 \times 5 \\ S_5 = 30 = 5 \times 6 \quad \therefore S_n = n(n+1)$$

page 442 ANSWERS PRACTICE TEST 8B, Question 5 c ii should not be an approximation:

$$5 \quad \mathbf{c} \quad \mathbf{i} \quad 104^\circ\text{F} \quad \mathbf{ii} \quad -459.67^\circ\text{F} \quad \mathbf{iii} \quad -99.67^\circ\text{F}$$

page 443 ANSWERS EXERCISE 9E, Question 1 d first line should read:

$$1 \quad \mathbf{d} \quad \triangle\text{s } XVW \text{ and } XYZ \text{ are equiangular as:}$$

page 444 ANSWERS EXERCISE 9F, Question 8 c should read:

$$8 \quad \mathbf{a} \quad 10 \text{ cm} \quad \mathbf{b} \quad 30 \text{ cm}^2 \quad \mathbf{c} \quad 6 \text{ mm}, \quad 2.25 \text{ mm} \quad \mathbf{d} \quad 1.25 \text{ mL}$$

page 444 ANSWERS PRACTICE TEST 9A, Question 6 should be:

$$6 \quad \mathbf{D} \quad 7 \quad \mathbf{C} \quad 8 \quad \mathbf{E} \quad 9 \quad \mathbf{E} \quad 10 \quad \mathbf{D}$$

page 445 ANSWERS EXERCISE 10F, Question 14 b should read:

$$14 \quad \mathbf{b} \quad \text{Lawn area} = 4 \times \text{total of flower bed areas} \\ \therefore 2(\pi \times 5^2) = 4 \times \pi r^2 \\ \therefore 50\pi = 4\pi \left(5 - \frac{x}{2}\right)^2 \\ \therefore 4 \left(25 - 5x + \frac{x^2}{4}\right) = 50 \\ \therefore 100 - 20x + x^2 = 50 \\ \therefore x^2 - 20x + 50 = 0$$

page 451 ANSWERS EXERCISE 13A, Question 4 c should read:

$$4 \quad \mathbf{c} \quad \text{approximately symmetrical} \quad \mathbf{d} \approx 38.3\%$$

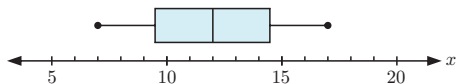
page 453 ANSWERS EXERCISE 13D, Questions 1 b ii and 2 c ii should read:

$$1 \quad \mathbf{a} \quad 50 \text{ trout} \quad \mathbf{b} \quad \mathbf{i} \approx 5 \text{ trout} \quad \mathbf{ii} \approx 15 \text{ trout} \\ 2 \quad \mathbf{c} \quad \mathbf{i} \approx 64\% \quad \mathbf{ii} \approx 52 \text{ students} \quad \mathbf{iii} \approx 74\%$$

page 453 ANSWERS EXERCISE 13F.1, Question 3 b should have correct maximum on box plot:

3 a min = 7, $Q_1 = 9.5$, med = 12, $Q_3 = 14.5$, max = 17

b

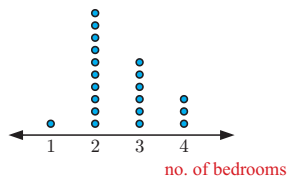


page 454 ANSWERS REVIEW SET 13, Questions 2 c and 3 d should read:

2 a discrete

b no

c Number of bedrooms
in students' houses



3 a 14

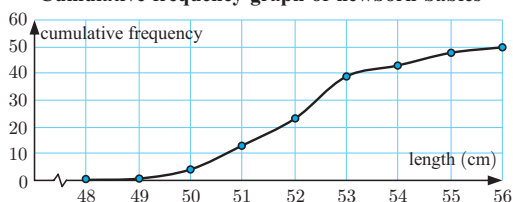
b 13.8

c 14

d 17

page 455 ANSWERS PRACTICE TEST 13C, Question 5 e should include the point at length = 48 cm:

5 e Cumulative frequency graph of newborn babies



page 457 ANSWERS EXERCISE 15B, Question 1 c should read:

1 c $x = -1$, $y = -5$

page 458 ANSWERS PRACTICE TEST 15C, Questions 2 b ii and iii should be swapped:

2 b i $x = 4$, $y = 3$

ii $x = 0$, $y = -5$

iii $x = -5.6$, $y = 0.6$

page 458 ANSWERS EXERCISE 16A, Question 11 c i should read:

11 b 150 passengers

c i $\frac{33}{50}$ ii $\frac{13}{50}$ iii $\frac{2}{25}$

page 460 ANSWERS PRACTICE TEST 16B, Question 5 b should read:

5 b $\frac{9}{20}$

page 461 ANSWERS EXERCISE 17D.1, Question 4 a should read:

4 a $g(x) = -\frac{1}{2}x + 3$

b $g(x) = \frac{3}{2}x - 2$

page 465 ANSWERS EXERCISE 18C, Questions 4 d and f should read:

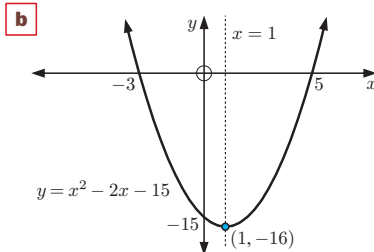
4 d $\frac{7 \pm \sqrt{73}}{6}$

e no x -intercepts

f $\frac{9 \pm \sqrt{33}}{8}$

page 467 ANSWERS REVIEW SET 18, Question 9 should have correct question labelling:

9 a i -15
ii -3 and 5
iii $x = 1$
iv $V(1, -16)$



page 468 ANSWERS PRACTICE TEST 18C, Question **2 d** should have correct question labelling:

2 d $x = \frac{8 \pm \sqrt{-8}}{4}$ \therefore no real solutions

page 475 ANSWERS PRACTICE TEST 20A, Question **8** should be:

6 A **7 E** **8 D** **9 E** **10 D**

page 477 ANSWERS EXERCISE 21B, Question **5 a** should have correct y -axis scale:

