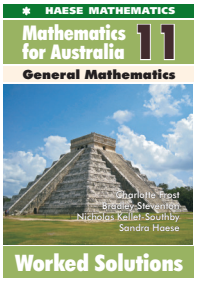


ERRATA

MATHEMATICS FOR AUSTRALIA 11

General Mathematics

Worked Solutions

First edition - 2018

The following erratum was made on 25/May/2020

page 103 **EXERCISE 3F.3,** 5th line of question **4** should read:

4 From the table, the monthly repayments on each \$1000 for 4 years at 6% p.a. $= \$23.4850$

$\therefore$ repayments on \$10 000 $= \$23.4850 \times 10$ {10 lots of \$1000}

$= \$234.85$

The repayments are \$234.90 per month. {next 10 cents}

Total repayment = monthly repayment $\times$ number of months

$= \$234.90 \times 48$

$= \$11\,275.20$

The following errata were made on 14/Aug/2019

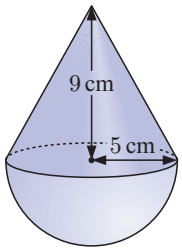
page 241 **EXERCISE 7E.2,** question **3 f** should read:

3 **f** V = volume of hemisphere + volume of cone

$= \frac{1}{2} \times \frac{4}{3}\pi r^3 + \frac{1}{3}(\text{area of base} \times \text{height})$

$= \frac{2}{3} \times \pi \times 5^3 + \frac{1}{3} \times \pi \times 5^2 \times 9 \text{ cm}^3$

$\approx 497 \text{ cm}^3$



page 243 **EXERCISE 7E.2,** question **6 a** diagram should have correct label:

6 **a** Depth of floor $= 120$ mm

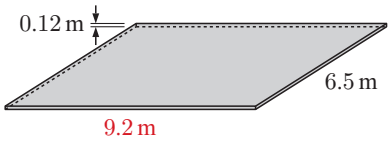
$= 120 \div 10 \div 100$ m

$= 0.12$ m

Volume of concrete = length $\times$ width $\times$ depth

$= 9.2 \times 6.5 \times 0.12 \text{ m}^3$

$= 7.176 \text{ m}^3$



page 255 **REVIEW SET 7A,** question **13** should read:

13 15.4 mm $= (15.4 \div 10 \div 100)$ m

$= 0.0154$ m

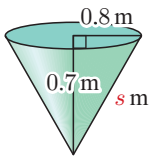
Volume of water collected on roof = area of roof $\times$ rainfall level

$= 12 \times 5.5 \times 0.0154 \text{ m}^3$

$= 1.0164 \text{ m}^3$

page 256 **REVIEW SET 7A,** question **15 b** diagram should have correct label:

15 **b** Let the slant height be s m.



$s^2 = (0.7)^2 + (0.8)^2$ {Pythagoras}

$\therefore \ s = \sqrt{(0.7)^2 + (0.8)^2}$

$\therefore \ s \approx 1.06$ {as $s > 0$}

So, the slant height of the cone is approximately 1.06 m.