The following erratum was made on 18/Jul/2018

page 210 CHAPTER 10 ACTIVITY 2 part 2 a original URL no longer works, instead use:

2 Find the last four electricity bills for your household, so that you have information about your household’s energy use over the past year.
   a Visit [www.energymadeeasy.gov.au/benchmark](http://www.energymadeeasy.gov.au/benchmark) to determine the typical energy use for your household. How does your household energy use compare with the typical energy use?

The following errata were made on 15/Aug/2016

page 117 CHAPTER 5 EXERCISE 5H question 2 a should include double tick mark:

2 Draw and name the solids which would be formed from the following nets:

![Diagram of a net forming a solid]

page 159 CHAPTER 7 EXAMPLE 7 question b should have triangle height be 6 cm:

**Example 7**

Find the area of:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>a</td>
<td>![Rectangle](7m × 5m)</td>
<td>b</td>
</tr>
</tbody>
</table>

a $A = \text{length} \times \text{width}$

$= 7 \times 5 \text{ m}^2$

$= 35 \text{ m}^2$

b $A = \frac{1}{2} \times \text{base} \times \text{height}$

$= \frac{1}{2} \times 10 \times 6 \text{ cm}^2$

$= 30 \text{ cm}^2$
Example 10

Sally invests $15,000 in an account that pays 4.25% p.a. compounded monthly. How much is her investment worth after 5 years?

\[ N = 5 \times 12 = 60, \quad I\% = 4.25, \quad PV = -15,000, \quad PMT = 0, \quad P/Y = 12, \quad C/Y = 12 \]

\begin{align*}
\text{Casio fx-9860G PLUS} & \quad \text{Casio fx-CG20 AU} & \quad \text{TI-84 Plus CE} \\
\text{n} &= 60 & \text{n} &= 60 & \text{n} &= 60 \\
\text{i} &= 4.25 & \text{i} &= 4.25 & \text{i} &= 4.25 \\
\text{PV} &= -15,000 & \text{PV} &= -15,000 & \text{PV} &= -15,000 \\
\text{FV} &\approx 18,544.53 & \text{FV} &\approx 18,544.53 & \text{FV} &\approx 18,544.53 \\
\text{N} &\approx 4282.10 & \text{N} &\approx 4282.10 & \text{N} &\approx 4282.10 \\
\text{P/Y} &\approx 12 & \text{P/Y} &\approx 12 & \text{P/Y} &\approx 12 \\
\text{C/Y} &\approx 12 & \text{C/Y} &\approx 12 & \text{C/Y} &\approx 12 \\
\text{PMT} &\approx 0 & \text{PMT} &\approx 0 & \text{PMT} &\approx 0 \\
\end{align*}

\[ FV \approx 18,544.53 \]

Sally’s investment is worth $18,544.53 after 5 years.

Example 11

Halena is investing money in a term deposit paying 5.2% p.a. compounded quarterly. How much does she need to deposit now, in order to collect $5000 at the end of 3 years?

\[ N = 3 \times 4 = 12, \quad I\% = 5.2, \quad PMT = 0, \quad FV = 5000, \quad P/Y = 4, \quad C/Y = 4 \]

\begin{align*}
\text{Casio fx-9860G PLUS} & \quad \text{Casio fx-CG20 AU} & \quad \text{TI-84 Plus CE} \\
\text{n} &= 12 & \text{n} &= 12 & \text{n} &= 12 \\
\text{i} &= 5.2 & \text{i} &= 5.2 & \text{i} &= 5.2 \\
\text{PV} &\approx -4282.10 & \text{PV} &\approx -4282.098569 & \text{PV} &\approx -4282.098569 \\
\text{FV} &= 5000 & \text{FV} &= 5000 & \text{FV} &= 5000 \\
\text{P/Y} &\approx 4 & \text{P/Y} &\approx 4 & \text{P/Y} &\approx 4 \\
\text{C/Y} &\approx 4 & \text{C/Y} &\approx 4 & \text{C/Y} &\approx 4 \\
\text{PMT} &\approx 0 & \text{PMT} &\approx 0 & \text{PMT} &\approx 0 \\
\end{align*}

\[ PV \approx -4282.10 \]

Thus, $4282.10 needs to be deposited.