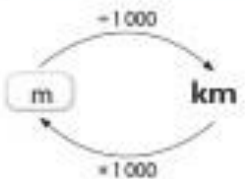
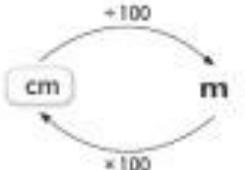
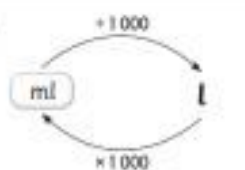
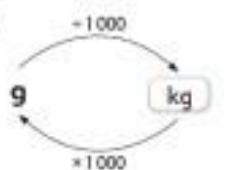
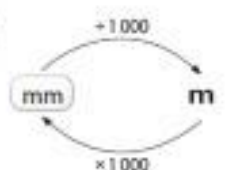
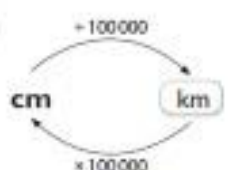


Page	Answers
84–85	<p>(1) (a)</p>  <p>To convert <input type="text" value="m"/> to km, we <input type="text" value="divide"/> by 1 000.</p> <p>(b)</p>  <p>To convert <input type="text" value="cm"/> to m, we <input type="text" value="divide"/> by 100.</p>

	<p>(c)</p>  <p>To convert <input type="text" value="ml"/> to l, we <input type="text" value="divide"/> by 1 000.</p> <p>(d)</p>  <p>To convert <input type="text" value="kg"/> to g, we <input type="text" value="multiply"/> by 1 000.</p> <p>(e)</p>  <p>To convert <input type="text" value="mm"/> to m, we <input type="text" value="divide"/> by 1 000.</p> <p>(f)</p>  <p>To convert <input type="text" value="km"/> to cm, we <input type="text" value="multiply"/> by 100 000.</p>
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- (2) (a) To convert kilograms to grams, we multiply by 1 000.
 $17 \times 1\,000 = 17\,000$
 So, 17 kg = 17 000 g.
- (b) To convert centimetres to millimetres, we multiply by 10.
 $128 \times 10 = 1\,280$
 So, 128 cm = 1 280 mm.
- (c) To convert kilometres to metres, we multiply by 1 000.
 $2 \times 1\,000 = 2\,000$
 So, 2 km = 2 000 m.
- (d) To convert grams to kilograms, we divide by 1 000.
 $3\,000 \div 1\,000 = 3$
 So, 3 000 g = 3 kg.
- (e) To convert litres to millilitres, we multiply by 1 000.
 $5 \times 1\,000 = 5\,000$
 So, 5 l = 5 000 ml.
- (f) To convert millimetres to centimetres, we divide by 10.
 $700 \div 10 = 70$
 So, 700 mm = 70 cm.

- (g) To convert millilitres to litres, we divide by 1 000.
 $9\,000 \div 1\,000 = 9$
 So, 9 000 ml = 9 l.

- (h) To convert metres to kilometres, we divide by 1 000.
 $30\,000 \div 1\,000 = 30$
 So, 30 000 m = 30 km.

Page	Answers
94	(1) (a) 360 g (b) 4 kg 450 g (c) 650 g (d) 3 kg 450 g

Page	Answers														
96	<p>(1)</p> <table border="1"> <thead> <tr> <th>Millilitres</th> <th>Litres</th> </tr> </thead> <tbody> <tr> <td>700</td> <td>0.7</td> </tr> <tr> <td>2000</td> <td>2</td> </tr> <tr> <td>1800</td> <td>1.8</td> </tr> <tr> <td>3500</td> <td>3.5</td> </tr> <tr> <td>7600</td> <td>7.6</td> </tr> <tr> <td>1250</td> <td>1.25</td> </tr> </tbody> </table>	Millilitres	Litres	700	0.7	2000	2	1800	1.8	3500	3.5	7600	7.6	1250	1.25
Millilitres	Litres														
700	0.7														
2000	2														
1800	1.8														
3500	3.5														
7600	7.6														
1250	1.25														

127	(2) (a) acute (b) reflex (c) reflex (d) obtuse (e) right (f) acute (g) obtuse (h) right
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133–134	<p>(2) (a) The sum of the angles in the triangle is 180°. $\angle B$ is a right angle. It is 90°. $\angle C = 180^\circ - 90^\circ - 35^\circ$ $= 90^\circ - 35^\circ$ $= 55^\circ$</p> <p>(b) The sum of the angles in the triangle is 180°. $\angle Q = 180^\circ - 49^\circ - 18^\circ$ $= 131^\circ - 18^\circ$ $= 113^\circ$</p> <p>(c) The triangle is an isosceles triangle. So, $\angle S = \angle T = 78^\circ$. The sum of the angles in the triangle is 180°. $\angle R = 180^\circ - 78^\circ - 78^\circ$ $= 102^\circ - 78^\circ$ $= 24^\circ$</p> <p>(3) This triangle is an isosceles triangle. So, $\angle P = \angle Q$ The sum of the angles in the triangle is 180°. $\angle P + \angle Q + \angle R = 180^\circ$ $\angle P + \angle Q = 180^\circ - 56^\circ$ $= 124^\circ$ So, $\angle P = \angle Q = 124^\circ \div 2 = 62^\circ$</p>
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Problem solving

AB is a straight line. The sum of the angles on a straight line is 180° .

$$\angle ACD + \angle BCD = 180^\circ$$

$$\begin{aligned}\angle BCD &= 180^\circ - 152^\circ \\ &= 28^\circ\end{aligned}$$

ED is a straight line. The sum of the angles on a straight line is 180° .

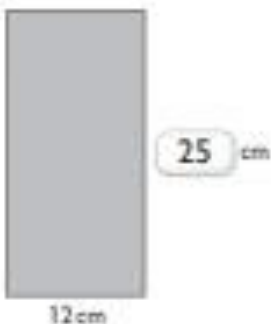
$$\angle EBC + \angle CBD = 180^\circ$$

$$\begin{aligned}\angle CBD &= 180^\circ - 60^\circ \\ &= 120^\circ\end{aligned}$$

The sum of the angles in the triangle is 180° .

$$\angle BCD + \angle CBD + \angle CDB = 180^\circ$$

$$\begin{aligned}\angle CDB &= 180^\circ - 28^\circ - 120^\circ \\ &= 152^\circ - 120^\circ \\ &= 32^\circ\end{aligned}$$

(2)

Let the length of the rectangle be x cm.

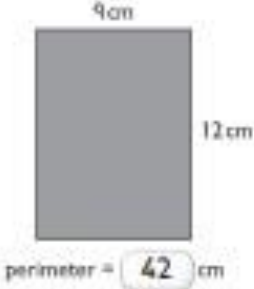
$$\text{Perimeter} = 74 \text{ cm}$$

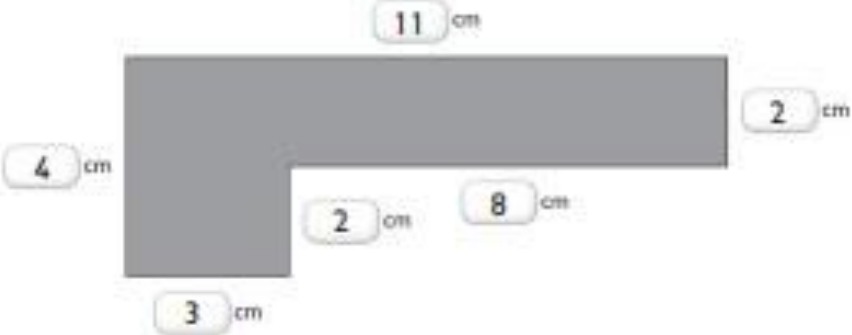
$$\text{Sum of widths} = 24$$

$$\text{So, sum of lengths} = 74 - 24 = 50 \text{ cm}$$

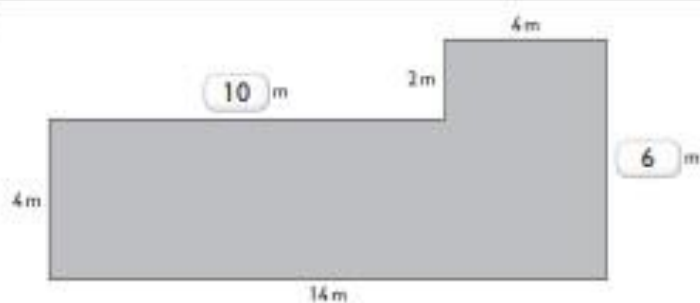
$$2 \times \text{length} = 50 \text{ cm}$$

$$\text{Length} = 25 \text{ cm}$$

Page	Answers
196	<p>(1)</p>  <p>Perimeter of rectangle = $9 + 12 + 9 + 12$ = 42 cm</p>

Page	Answers
202	<p>(1)</p>  <p>perimeter = 4 cm + 11 cm + 2 cm + 8 cm + 2 cm + 3 cm = 30 cm</p>

(2)



$$\begin{aligned}\text{Perimeter} &= 4\text{ m} + 10\text{ m} + 2\text{ m} + 4\text{ m} + 6\text{ m} + 14\text{ m} \\ &= 40\text{ m}\end{aligned}$$

$$\text{perimeter} = 40\text{ m}$$

203

(3) (a) Find the length of side A. Show your working in the space below.

$$\text{Length of side A} = 8\text{ cm} + 4.5\text{ cm} - 2.5\text{ cm} = 10\text{ cm}$$

10 cm

(b) Find the length of side B. Show your working in the space below.

$$\text{Length of side B} = 8.5\text{ cm} + 4.5\text{ cm} - 3.5\text{ cm} = 9.5\text{ cm}$$

9.5 cm

(c) Find the perimeter of the shape. Show your working in the space below.

$$\begin{aligned}\text{Perimeter} &= 8\text{ cm} + 8.5\text{ cm} + 4.5\text{ cm} + 4.5\text{ cm} + 10\text{ cm} \\ &\quad + 9.5\text{ cm} + 2.5\text{ cm} + 3.5\text{ cm} = 51\text{ cm}\end{aligned}$$

51 cm

Page	Answers
205	<p data-bbox="414 304 893 346">(1) (a) Find the length of side A.</p> <div data-bbox="568 367 1518 493" style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> $4 + 2 = 6$ <div style="text-align: right; border: 1px solid black; border-radius: 10px; padding: 2px 10px; display: inline-block;">6 m</div> </div> <p data-bbox="414 525 893 567">(b) Find the length of side B.</p> <div data-bbox="568 588 1518 714" style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> $6 + 8 = 14$ <div style="text-align: right; border: 1px solid black; border-radius: 10px; padding: 2px 10px; display: inline-block;">14 m</div> </div> <p data-bbox="414 745 893 787">(c) Find the area of the shape.</p> <div data-bbox="568 808 1518 1123" style="border: 1px solid black; padding: 5px;"> $\begin{aligned} \text{Area of rectangle 1} &= 4\text{ m} \times 6\text{ m} \\ &= 24\text{ m}^2 \\ \text{Area of rectangle 2} &= 8\text{ m} \times 6\text{ m} \\ &= 48\text{ m}^2 \\ \text{Area of shape} &= 24\text{ m}^2 + 48\text{ m}^2 \\ &= 72\text{ m}^2 \end{aligned}$ <div style="text-align: right; border: 1px solid black; border-radius: 10px; padding: 2px 10px; display: inline-block;">72 m²</div> </div>