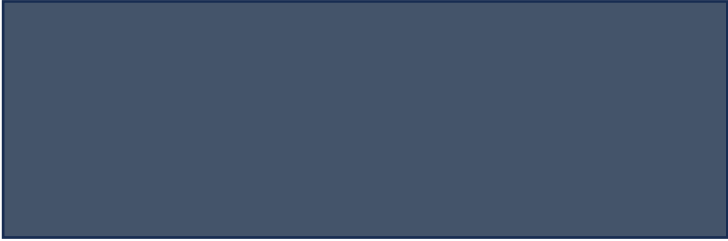
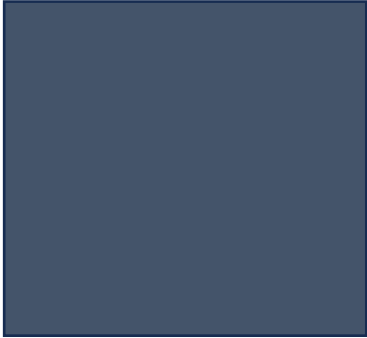


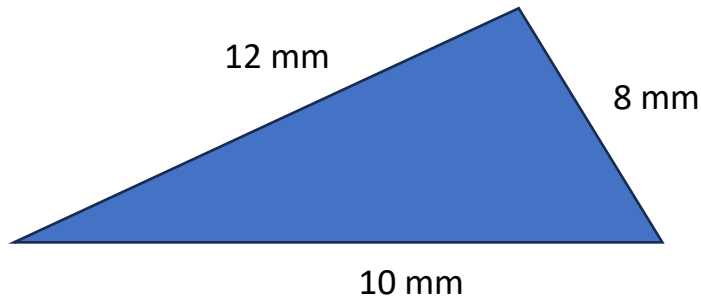
Phase 7 Measurement Assessment

Phase 7 Progression Overview	Assessment Note	Marks
<ul style="list-style-type: none"> I can convert between related units to efficiently solve problems. 	Included throughout the assessment.	
<ul style="list-style-type: none"> I can use the comparative size of familiar objects to make reasonable estimations of length, mass, area and capacity. 	Question 1	
<ul style="list-style-type: none"> I can estimate to the nearest appropriate unit, then measures accurately: length, height and distance in millimetres (mm), centimetres (cm), metres (m) and kilometres (km); mass in grams (g) and kilograms (kg); and capacity in millilitres (ml) and litres (l). (Note: measuring accurately including using decimals and fractional parts.) 	Have you observed your learners doing this?	
<ul style="list-style-type: none"> I can calculate the perimeter of simple straight sided 2D shapes in millimetres (mm), centimetres (cm) and metres (m). 	Question 2	
<ul style="list-style-type: none"> I can calculate the area of squares, rectangles and right-angled triangles in square millimetres (mm²) square centimetres (cm²) and square metres (m²). 	Question 3	
<ul style="list-style-type: none"> I can calculate the volume of cubes and cuboids in cubic centimetres (cm³) and cubic metres (m³). 	Question 4	
<ul style="list-style-type: none"> I can convert between common units of measurement using decimal notation, for example, 550 cm = 5.5 m; 3.009 kg = 3009 g. 	Question 5	
<ul style="list-style-type: none"> I can choose the most appropriate measuring device for a given task and carries out the required calculation, recording results in the correct unit. 	Question 6	
<ul style="list-style-type: none"> I can read a variety of scales accurately. 	Question 7	
<ul style="list-style-type: none"> I can draw squares and rectangles accurately with a given perimeter or area. 	Question 8	
<ul style="list-style-type: none"> I can demonstrate understanding of the conservation of measurement, for example, draw three different rectangles each with an area of 24 cm² 	Question 9	

	Question	Mark
<p>1</p> <p>(a)</p>	<p>Answer the following questions.</p> <div data-bbox="582 219 997 694" data-label="Diagram"> </div> <p>The above diagram shows a plan for a house. If the height of one floor in the house is 2.4m, using the diagram above estimate the height of the house. Explain your thinking.</p>	<p>1</p>
<p>(b)</p>	<div data-bbox="638 1317 933 1612" data-label="Image"> </div> <p>If this glass holds 250ml, estimate how much liquid the whole glass will hold. Explain your thinking.</p>	<p>1</p>

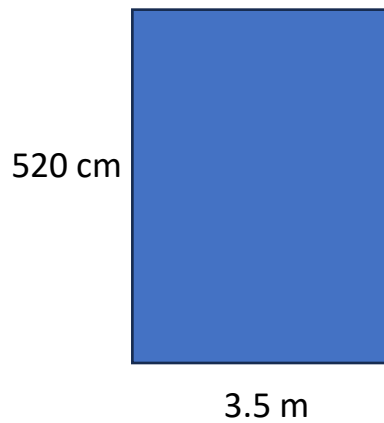
2	Answer the following questions.	
(a)	<p>Calculate the perimeter of the rectangle shown below. Show your thinking.</p> <p style="text-align: center;">10 cm</p> <p style="margin-left: 100px;">6 cm</p> 	1
(b)	<p>Calculate the perimeter of the square shown below. Show your thinking.</p>  <p style="margin-left: 200px;">6.5 m</p>	1

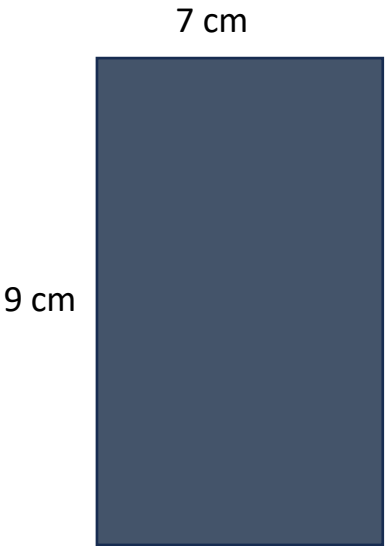


(c) Calculate the perimeter of the triangle shown below.
Show your thinking.



1

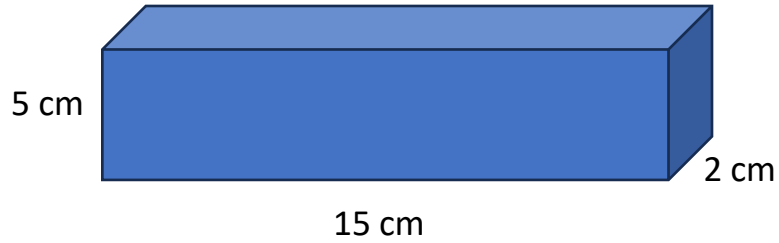
(e) Calculate the perimeter of the following garden choosing the most appropriate unit of measurement.
Show your thinking.



3	Answer the following questions.		
(a)	 <p>7 cm</p> <p>9 cm</p>	Calculate the area of rectangle shown below. Show your thinking.	1
(b)	 <p>8 cm</p>	Calculate the area of this square. Show your thinking.	1
(c)	 <p>6 cm</p> <p>9 cm</p>	Calculate the area of this right angled triangle. Show your thinking.	1

4 Answer the following questions.

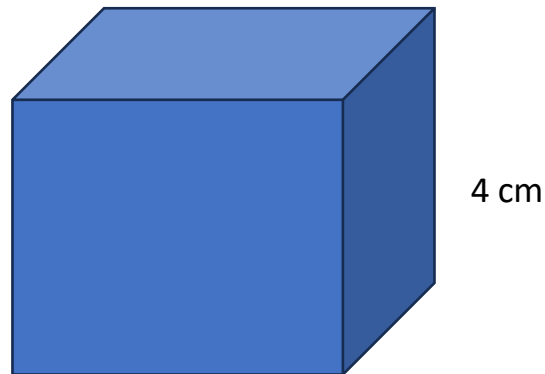
(a)



Calculate the volume of the cube above.
Show your thinking.

1

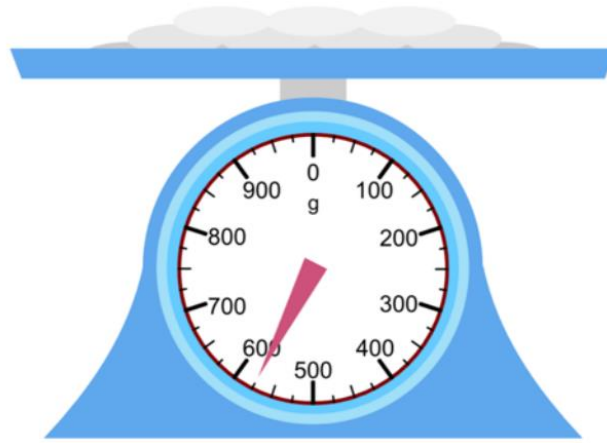
(b) Jack thinks the cube will hold 60 ml of water. Given that $1 \text{ ml} = 1 \text{ cm}^3$, is Jack correct?
Show your thinking.



5	Answer the following questions.	
(a)	What is 1·879 m in centimetres?	1
(b)	What is 4m 34 cm in metres?	1
(c)	What is 25g in kg?	
(d)	What is 5·9 litres in ml?	1
6	Complete the following statement	
(a)	<p>What would you use to measure the length and breadth of your jotter?</p> <p>Using this measurement tool, what are the dimensions of your jotter?</p>	1
(b)	<p>What would you use to measure the length and breadth of your classroom?</p> <p>Using this measurement tool, calculate the perimeter of your classroom. Show your thinking.</p>	1

7 Answer the following questions.

(a)



Flour is being weighed for a recipe, according to the scales above what is the weight of the flour? Explain your thinking.

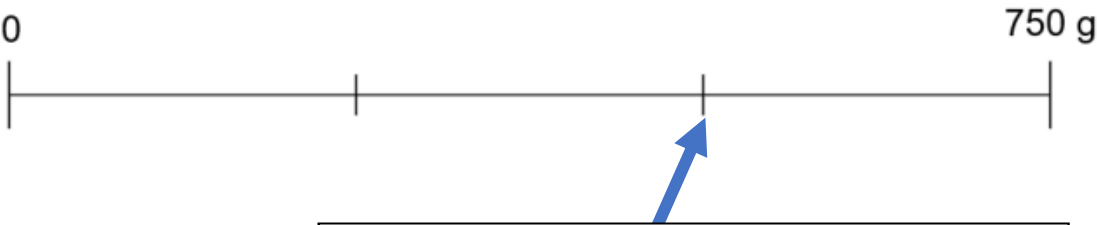
1

(a)



Cake is being weighed in 56g slices for a school party. Jane thinks the scales show 560g and Paul thinks the scales show 56g. Who do you agree with and why?

1

<p>(c)</p>	 <p>0 750 g</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 20px auto;"> <p>What measurement is the arrow pointing to?</p> </div>	<p>1</p>
<p>8</p>		
<p>(a)</p>	<p>If we know that the perimeter of a square is 36 cm, what is the length of each side? Show your thinking.</p>	<p>1</p>
<p>(b)</p>	<p>If we know that the perimeter of a rectangle square is 26 cm, what could the length of each side be? Show your thinking.</p>	<p>1</p>

(c)	If we know that the area of a square is 64 cm^2 , what would the length of one side be?	1
9	Given the area of a rectangle is 24 cm^2 , draw three different rectangles each with an area of 24 cm^2	1