§ 1 Revision

1. Calculate the perimeter of the following shape

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\[
\begin{array}{c}
1.8 \text{ m} \\
1.2 \text{ m} \\
2.0 \text{ m} \\
2.4 \text{ m}
\end{array}
\]
```

2. Calculate the area of the shape below

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\[
\begin{array}{c}
15 \text{ cm} \\
10 \text{ cm} \\
8 \text{ cm}
\end{array}
\]
```

3. Change the following measurements

   a) 5.2 cm to mm  
   b) 970 cm to m  
   c) 1.12 km to m  
   d) 2 cm² to mm²

4. Multiply out the brackets

   a) \(2(x - 4)\)  
   b) \(5(a + 2b)\)  
   c) \(7(2x + 4y)\)

5. A new juice carton has been designed to hold 200 cm³. If we know the length and breadth of the carton are both 5 cm, how tall is the carton?
§ 2 Trigonometry

1. Find the angles and sides marked with letters.

2. The diagram opposite shows part of the framework for a small hinged bracket.
   (a) Calculate the length of DB.
   (b) Hence calculate the length of BC.

3. The diagram opposite represents a playground chute.
   AC represents the slide and AB the stairs.
   A local council ruling states "for a slide to be safe the maximum permissible angle between the slide and the ground is 35°".
   Does this diagram represent a "safe" slide?