

To be able to draw lines and angles accurately



Starter:

Four friends are describing lines they have all drawn.

Jamal says, "I have drawn a line that is 6 cm and 5 mm long."

Ruth says, "I have drawn a line that is $6\frac{1}{2}$ cm long."

Ahmed says, "I have drawn a line that is 65 mm long."

Yasmin says, "I have drawn a line that is 6.5 cm long."

What's the same? What's different?

Explain your answer with reference to known facts.

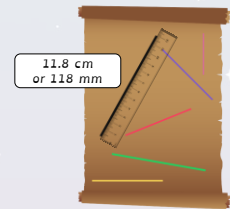
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Activity 1:

Draw straight lines of various lengths and orientations on to poster paper.

Children to measure each line to the nearest mm.



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Activity 2:

Use the lines to complete the angles based on their instructions below.

The angle has a measurement of 115° .

The angle has a measurement of 57° .

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Activity 3:

Complete the following:

- a) Draw three angles (in different orientations) that each measure 45 degrees.
- b) Draw three angles (in different orientations) that each measure 123 degrees.
- c) Draw three angles (in different orientations) that each measure 164 degrees.

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Activity 4:

Complete the following:

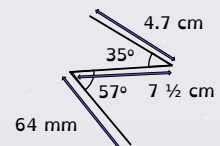
- a) Draw an angle that has a measurement of 67 degrees, where one line is 45 mm in length and the other line is 8.3 cm long.
- b) Draw an angle that has a measurement of 167 degrees, where one line is 87 mm in length and the other line is 6.8 cm long.

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Activity 5:

Draw the shape suggested by the diagram shown (not drawn to scale).



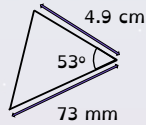
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Activity 6:

Draw the triangle suggested by the diagram shown (not drawn to scale).

What is the length of the third side?
Can you calculate the perimeter?



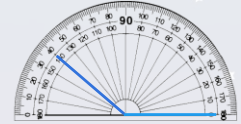
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Evaluation:



I have drawn
an angle of
40 degrees.



Do you agree?
Explain your answer in full.