

Geometry 2F Assessment

Foundation Level



1 - 12



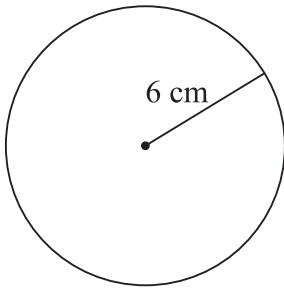
13 - 17

Clip	Grade	Title of clip	Question(s)	Marked out of	Score	%
117.	3	Area of a Circle	1, 13, 14	7	___	___
118.	3	Circumference of a Circle	2, 13	4	___	___
119.	3	Volume of a Prism	3	2	___	___
120.	3	Angles and Parallel Lines.	4	3	___	___
121.	3	Angles in a Triangle	5	2	___	___
122.	3	Properties of Special Triangles.	5	2	___	___
123.	3	Angle Sum of Polygons	6	2	___	___
124.	3	Bearings	7	3	___	___
145.	4	Bisecting an Angle	8	3	___	___
146.	4	Constructing Perpendiculars.	9	3	___	___
147.	4	Draw a Triangle Using Compasses	10	3	___	___
148.	4	Enlargements	11	3	___	___
149.	4	Tangents, Arcs, Sectors and Segments	12	4	___	___
150.	4	Pythagoras' Theorem	15 - 17	7	___	___

Out of 48 TOTAL SCORE _____

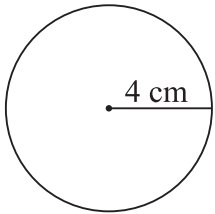
Final Percentage %

1) Find the area of this circle, leaving your answer in terms of π .



Area = _____ cm^2 2

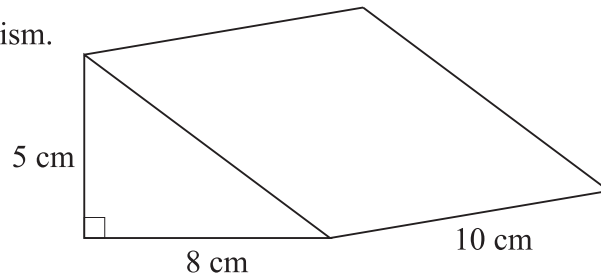
2) Find the circumference of this circle, leaving your answer in terms of π .



Circumference = _____ cm 2

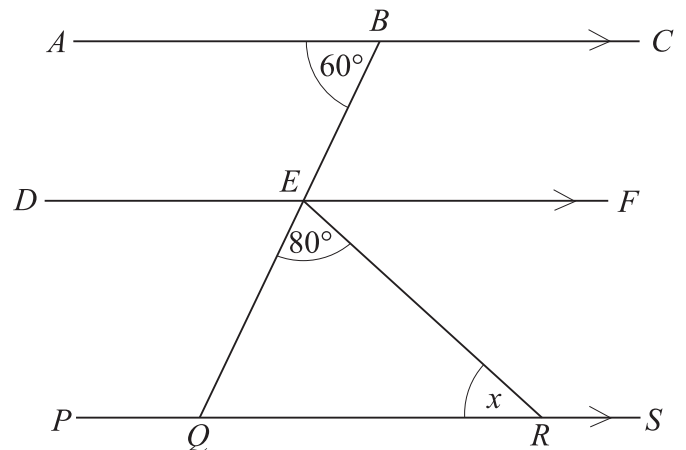
3) Find the volume of this triangular prism.

Volume is _____ cm^3 2

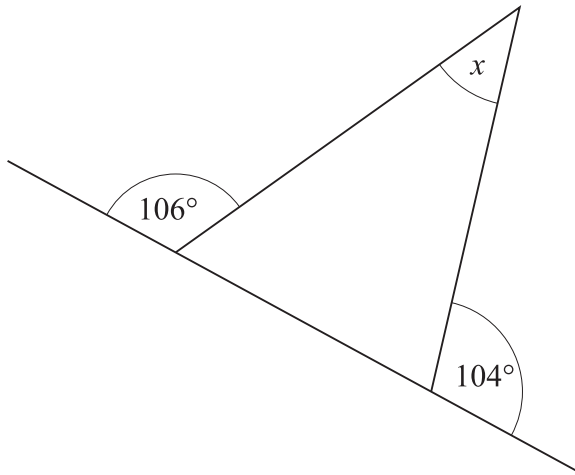


4) Work out the size of the angle marked x .

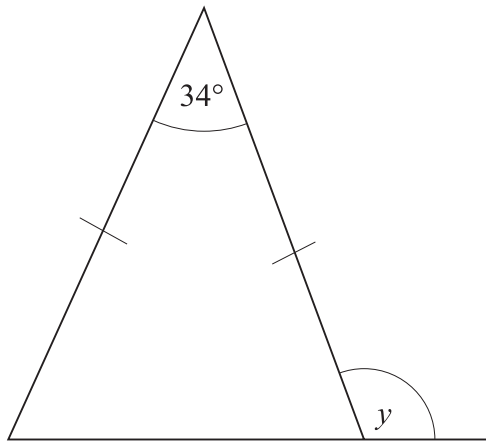
Give reasons for each stage of your working. 3



5) Work out the size of the angles marked x and y .



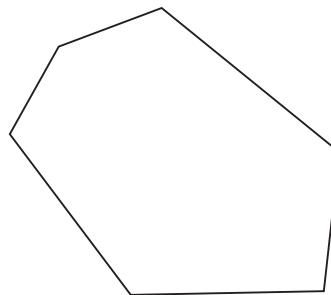
a) Angle x is _____ $^\circ$ 2



b) Angle y is _____ $^\circ$ 2

6) Find the sum of the internal angles of this hexagon.

Sum of the angles is _____ $^\circ$ 2

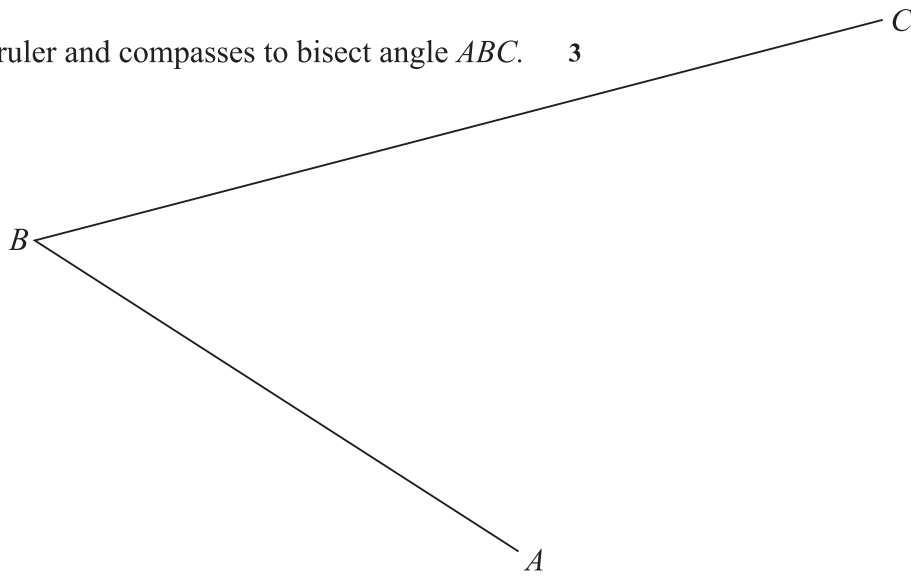


7) The bearing of a church from a school is 105° .

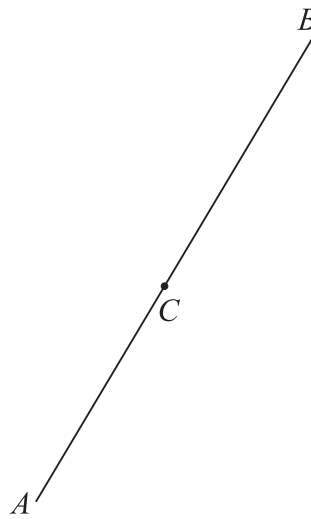
Make a sketch of this and use your sketch to help calculate the bearing of the school from the church.

The bearing of the school from the church is _____ $^\circ$ 3

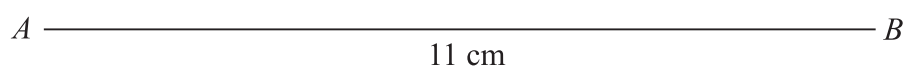
- 8) Use ruler and compasses to bisect angle ABC . 3



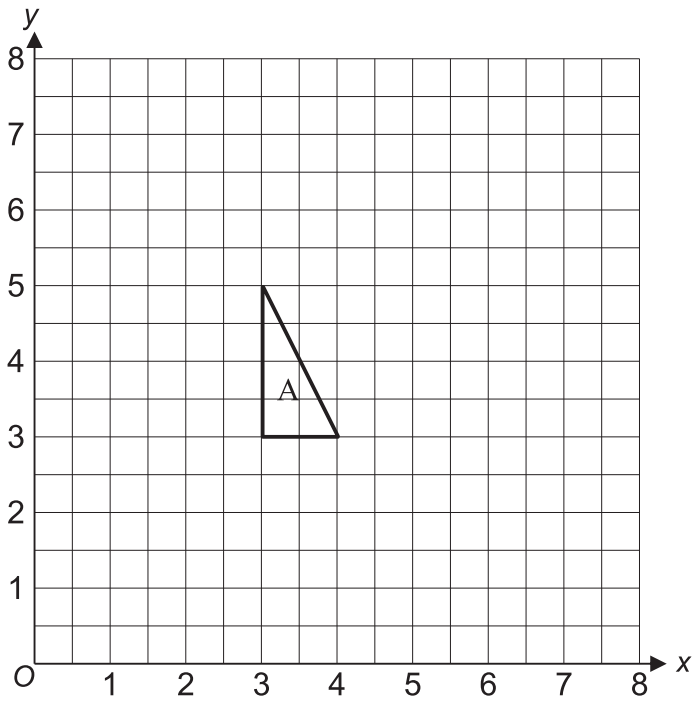
- 9) Use ruler and compasses to draw a line which is perpendicular to line AB at point C . 3



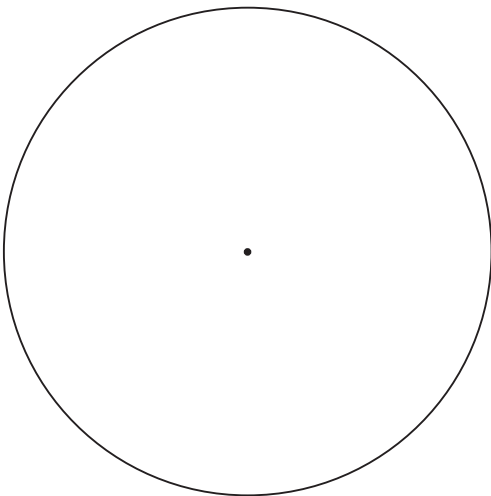
- 10) Use ruler and compasses to draw a triangle ABC with AB of length 11 cm, AC of length 6 cm and BC of length 14 cm.
The line AB has been drawn for you. 3



- 11) Enlarge triangle A by scale factor 1.5 centre O . 3



- 12) In the circle below:

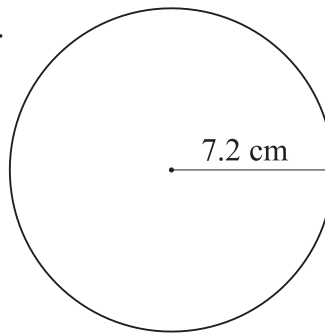


- a) Draw a chord and label it A. 1
- b) Shade in a segment of the circle and label it B. 1
- c) Shade in any sector of the circle and label it C. 1
- d) Draw a tangent to the circle and label it D. 1

13) Find the area and the circumference of this circle.
Give your answers to 1 decimal place.

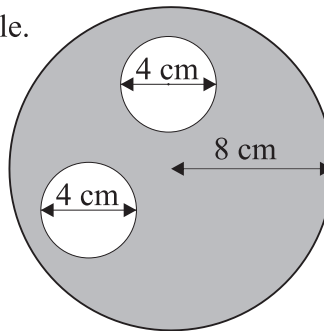
a) Area is _____ cm^2 2

b) Circumference is _____ cm 2

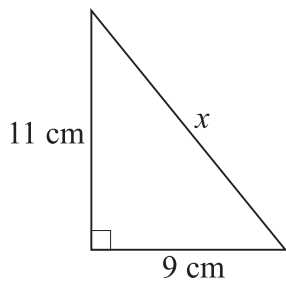


14) Find the area of the shaded region of the large circle.
Give your answer to 1 decimal place.

Area is _____ cm^2 3

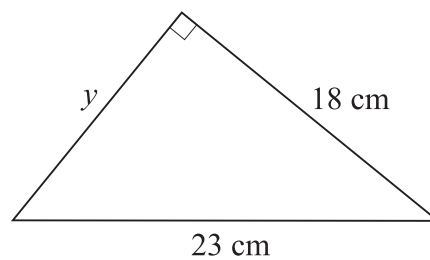


15) Find the length of side x .
Give your answer to 1 decimal place.



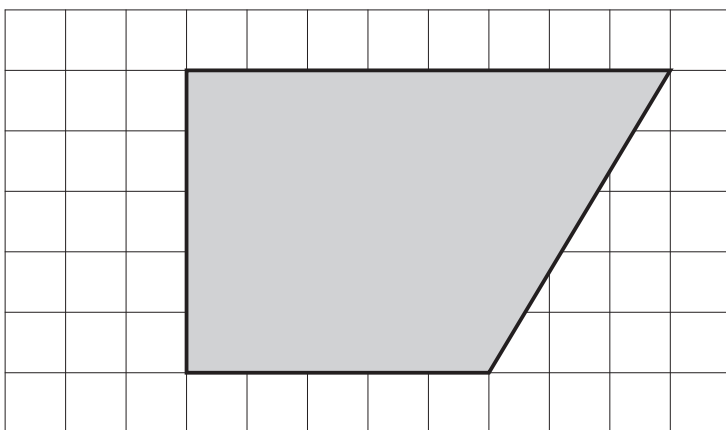
Length of side x is _____ cm 2

16) Find the length of side y .
Give your answer to 1 decimal place.



Length of side y is _____ cm 2

17) On the cm grid is a shaded tile.



Calculate the perimeter of the tile, giving your answer to 1 decimal place.

Perimeter is _____ cm 3