

NAME

Time:

Non-Calculator Questions



- 1 A circle has a diameter of 14 cm.
Work out its area in terms of π

(2 marks)

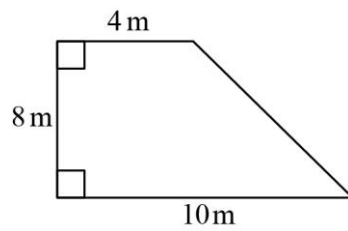


- 3 Convert 36000 cm^2 to m^2

(1 mark)



- 5 This is a trapezium.



- a Work out the area of the trapezium.

2 marks)



- b Work out the perimeter of the trapezium.

(3 marks)

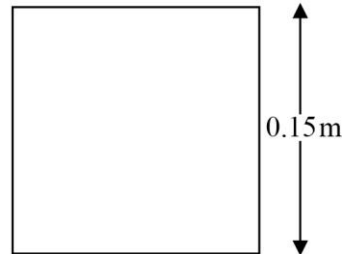
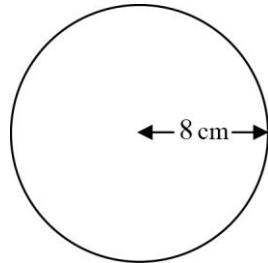
NAME



Calculator Questions (30 minutes)



7



A circle has a radius of 8 cm.

A square has sides of length 0.15 m.

Work out the difference between the area of the circle and the area of the square.

Give your answer correct to 3 significant figures.

(5 marks)



9 Nir is making some circles out of wire for a game.

Each circle has a diameter of 5.2 cm.

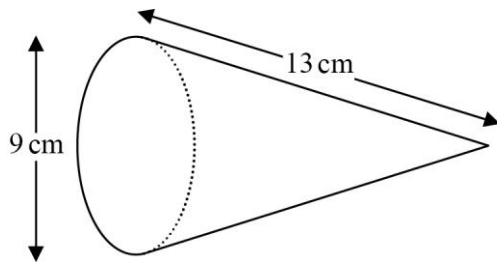
Nir has 4 m of wire.

What is the greatest number of circles he can make?

(4 marks)



11



Curved surface area of cone = $\pi r l$

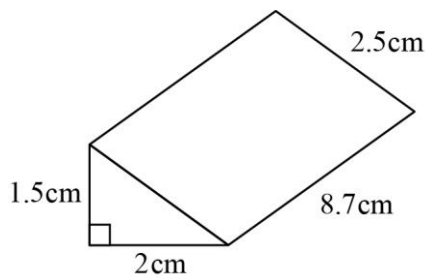
A diagram of a cone with a circular base of radius r , a vertical height h , and a slant height l . The radius r is shown as a horizontal line from the center of the base to the edge. The height h is a vertical line from the apex to the center of the base. The slant height l is the length of the side of the cone.

Work out the total surface area of this cone.
Give your answer to the nearest whole number.

(3 marks)



13 Here is a triangular prism.



Volume of a sphere = $\frac{4}{3}\pi r^3$

A diagram of a sphere with a radius r shown as a line from the center to the surface.

A sphere has the same volume as this triangular prism.
Work out the radius of the sphere.
Give your answer correct to 3 significant figures.

(5 marks)

Overall mark	/
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