

**SS 1 MID-TERM HOLIDAY PROJECT FOR TERM 2, 2018 - 2019 SESSION**

**SUBJECT: MATHEMATICS**

1. A metal cone of base diameter 8cm has a height of 3cm.

(a) Calculate the volume of the cone in terms of

(b) Calculate the slant height of the cone

(c) If the cone is unfolded or cut and opened out into the area of the sector of a circle, find the angle of the sector.

2. A sector of a circle of radius 12cm which subtends an angle of 3320 at the centre of the circle is reshaped to form a cone. Find, to the nearest whole number, the :

(i) base diameter of the cone;

(ii) vertical height of the cone;

(iii) total surface area of the cone;

(iii) perimeter of the sector.



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