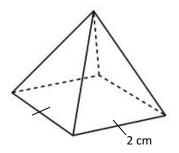
MPM1DI <u>Skill Reflection 3-D Measurement</u> <u>NOTE:</u> Full solutions are required for full marks.

1. Calculate the volume of this figure, given the height of the figure is 9 cm and the base length is 2 cm. (2 marks)



2. A conical paper cup at a water dispenser has a diameter of 5 cm, a height of 6 cm and a slant height of 6.5 cm. (4 marks)

a) How much paper, to the nearest square centimetre, is used to make the cup?

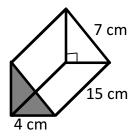
Name:

/15



b) If an extra 8% of material is required for the seams and rim, how much paper is required to make the cup in part (a) ?

Calculate the surface area of this
<u>right</u>-triangular prism to the nearest tenth.
(4 marks)



4. John built his own skateboard half-pipe which he is now going to paint. The depth of the half-pipe is 3 m and the length is 17 m. Each pail of paint covers 120 m². How many pails of paint will be needed? (5 marks)

