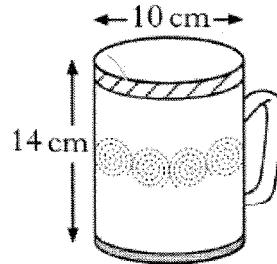


### N5 Unit 1 Spot Test 3

1. A mug is in the shape of a cylinder with diameter 10 centimetres and height 14 centimetres.
- Calculate the volume of the mug.
  - 600 millilitres of coffee are poured in. Calculate the depth of the coffee in the cup.



(5)

### N5 Spot Test 4 Revision Ch 10

1. a)  $V = \pi r^2 h$   
 $= \pi \times 5^2 \times 14$  ✓  
 $= 1099.557429$   
 $= 1100 \text{ cm}^3$  (to 2sf)

b)  $V = \pi r^2 h$        $600 \text{ mL} = 600 \text{ cm}^3$   
 $600 = \pi \times 5^2 \times h$  ✓

$$h = \frac{600}{\pi \times 5^2}$$
 ✓  
 $= 7.639437268$   
 $= 7.6 \text{ cm}$  (to 2sf) ✓