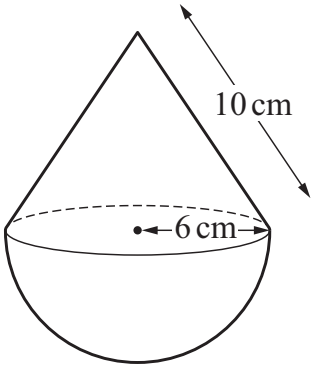
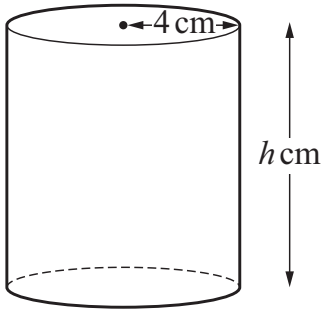
13



Solid *A*



Solid *B*

NOT TO SCALE

The diagram shows solid *A* and solid *B*.
Solid *A* is made from a hemisphere and a cone each with radius 6 cm.
The cone has sloping edge 10 cm.
Solid *B* is a cylinder with radius 4 cm and height *h* cm.

The **total** surface area of solid *A* is equal to the **total** surface area of solid *B*.

(a) Work out the value of *h*.

h = ... [5]

(b) Work out the height of solid *A*.

..... cm [3]