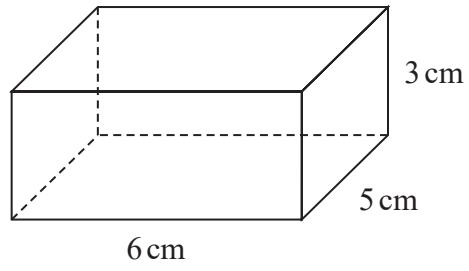


Surface Area

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Here is a different cuboid.

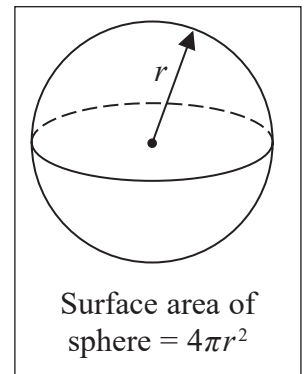
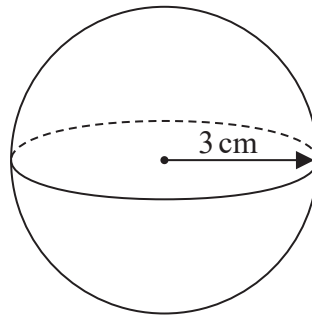
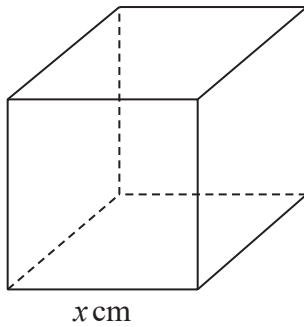


14 (b) Work out the total surface area of this cuboid.

..... cm^2
(3)

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26 The diagram shows a cube with edges of length x cm and a sphere of radius 3 cm.



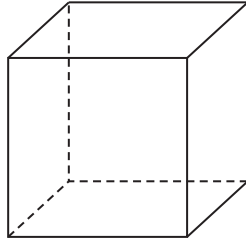
The surface area of the cube is equal to the surface area of the sphere.

Show that $x = \sqrt{k\pi}$ where k is an integer.

(Total for Question 26 is 4 marks)

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27 The diagram shows a solid cube placed on a horizontal table.



$$\text{pressure} = \frac{\text{force}}{\text{area}}$$

The pressure on the table due to the cube is 3.5 newtons/cm^2

The force exerted by the cube on the table is 504 newtons.

Show that the total surface area of the cube is less than 900 cm^2

(Total for Question 27 is 3 marks)