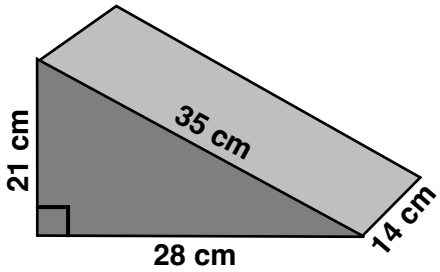
Parts of Circles and Investigation of Pi

Starter

1. **(Review of last lesson)**
   Calculate the surface area of the prism.



Working: Sloping face $= 35 \times 14 = 490$

Each triangular face $= \dfrac{21 \times 28}{2} = 294$

Rectangular base $= 14 \times 28 = 392$

Vertical face $= 21 \times 14 = 294$

Surface area of prism $= 490 + (2 \times 294) + 392 + 294 = 1764$ cm^2

Video: **Parts of the circle**

Solutions to Starter and E.g.s

Exercise

1. CIMT 8B p71 Ex 16.1 Qu 1-2, 4-6
2. Additional task:
   Find at least 3 circular objects at home (e.g. tin of soup, bicycle wheel). For each object:
   (a) using a ruler, measure its diameter.
   (b) using a piece of string, measure its circumference.
   (c) record your data in a table

Object	Diameter	Circumference

   (d) Calculate the value $\dfrac{\text{circumference}}{\text{diameter}}$ for each of your objects. What do you notice?