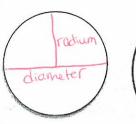
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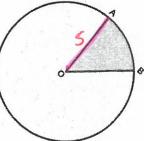
Geometric Figures Cones 01

1. Label the following in the diagram below.

- Radius
- Diameter
- Circumference the "perineter" of the disk

- Sector = S



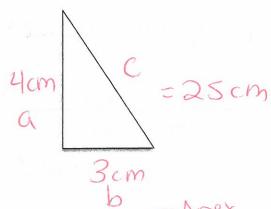


What is π ? numerical value of

What is the formula for the circumference of a circle, given the diameter?

 $C = 2\pi \frac{1}{2}D$ or $2\pi r$ (with diameter) (with radius) What is the formula for the area of a circle, given the radius?

2. What is Pythagoras' theorem of right triangles?



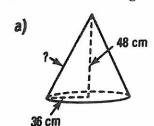
3. Knowing the parts of a cone (a right circular cone)

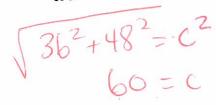
Label the terms underlined below on the diagram at right.

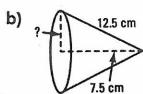
Surface

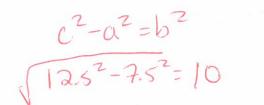
- a) The disc at the bottom is called the base.
- b) The curved surface is referred to as the *lateral surface*
- c) The *apex* is the topmost point opposite the base.
- d) The cone's *height* is the line segment joining the apex and the center of the base.
- e) The *radius* of the cone is the radius of the base.
- f) The slant height is any line joining the apex and a point on the base's circle.

4. Find the missing dimension







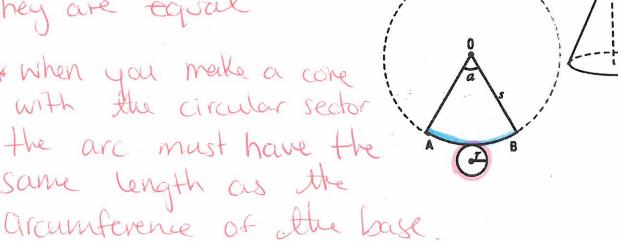


$$(7.5^2 - 4.5^2 = k)$$

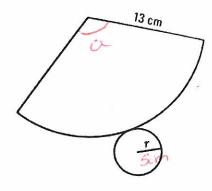
5. What is the relationship between the circumference of the base of a cone and the arc length of the larger sector?

They are Equal It when you make a cone with the circular sector





6. The circular sector of a cone's net has a radius of 13 cm. If the radius of the cone is 5 cm, what is the angle of this sector?



$$\frac{a}{360^{\circ}} = \frac{r}{s}$$

$$\frac{a}{360^{\circ}} = \frac{scm}{13cm}$$

$$\frac{a}{360^{\circ}} = \frac{1386}{13cm}$$