

Date : ___/___/___

Surface area of a cone.

$$SA = \pi r^2 + \pi r l.$$

OR

$$SA = \pi r (r + l)$$

Curved surface area = $\pi r l$.

Ex: 27.23.

1a. $SA = \pi r (r + l)$
 $= 6\pi (6 + 16)$
 $= 22 \times 6 \times \pi$
 $= \underline{\underline{414.7 \text{ cm}^2}}$

b. $SA = \pi r (r + l)$
 $= 15\pi (15 + 20)$
 $= \underline{\underline{1649.3 \text{ cm}^2}}$

2a. S.A of the shape = $\pi r_1 l_1 + \pi r_2 l_2$
 $= \pi \times 8 \times 15 + \pi \times 8 \times 36$
 $= \underline{\underline{1130.97 \text{ cm}^2}}$