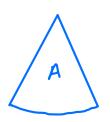
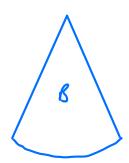
## Similar Figures





A and B are mathemetically similar

a) If the height of A = 15 cm find height of B

b) If surface area of B = 200 cm² find surface area of A

Vol 
$$1000:8000 = 1:8$$
  
Length  $3\sqrt{1000}:3\sqrt{8000} = 10:20=1:2$   
Area  $1^2:2^2=1:4$ 

a) Height of  $B = \text{Height of } A \times \frac{2}{1}$ 15x2 = 30cm

## Exercise 14 D Page 324 Blue Books

Snall: Large

Length 1: 3

Area 
$$1^2:3^2=1:9$$

Large area = Snall area  $\times \frac{9}{1}$ 

= 15  $\times 9$ 

= 135 cm<sup>2</sup>

Small: large

Length 1: 2

Arec 
$$1^2: 2^2 = 1:4$$

large area = Saullarea  $\times \frac{4}{1}$ 

=  $14 \times 4$ 

=  $56 \text{ cm}^2$ 

6)

Small: large

Len 1:3

Aren 
$$1^2:3^2=1:9$$

large aren = Small aren  $\times \frac{9}{1}$ 

= 14 × 9

= 126 cm<sup>2</sup>