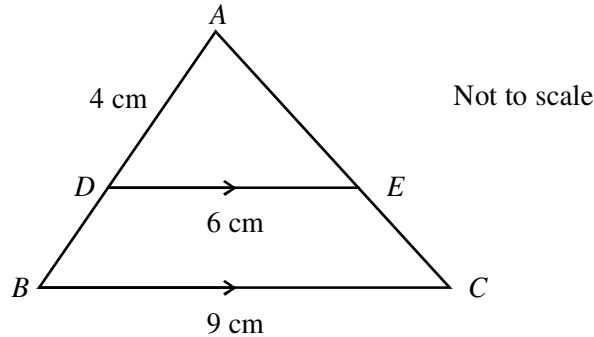


SIMILAR SHAPES

1. Triangles ADE and ABC are similar.
 DE is parallel to BC .
 $AD = 4$ cm, $DE = 6$ cm and $BC = 9$ cm.



Calculate the length of BD .

.....

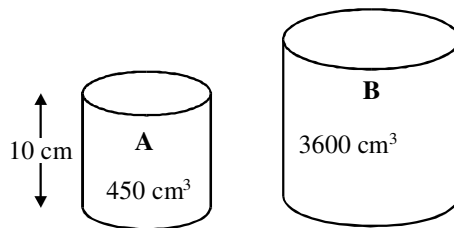
.....

.....

.....

Answer cm
(Total 3 marks)

2. A and B are two similar cylinders.



The height of cylinder A is 10 cm and its volume is 450 cm^3 .
The volume of cylinder B is 3600 cm^3 .

Calculate the height of cylinder B .

.....

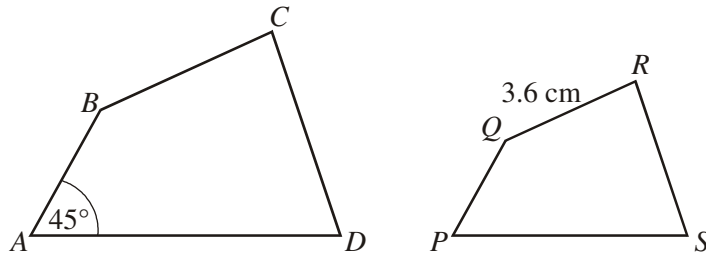
.....

.....

Answer cm
(Total 3 marks)

3. $PQRS$ is an enlargement of $ABCD$ with scale factor $\frac{2}{3}$.

$QR = 3.6$ cm
Angle $BAD = 45^\circ$



Not to scale

- (a) Calculate the length of BC .

.....

Answer cm

(2)

- (b) Find the size of angle QPS .

.....

Answer degrees

(1)

(Total 3 marks)