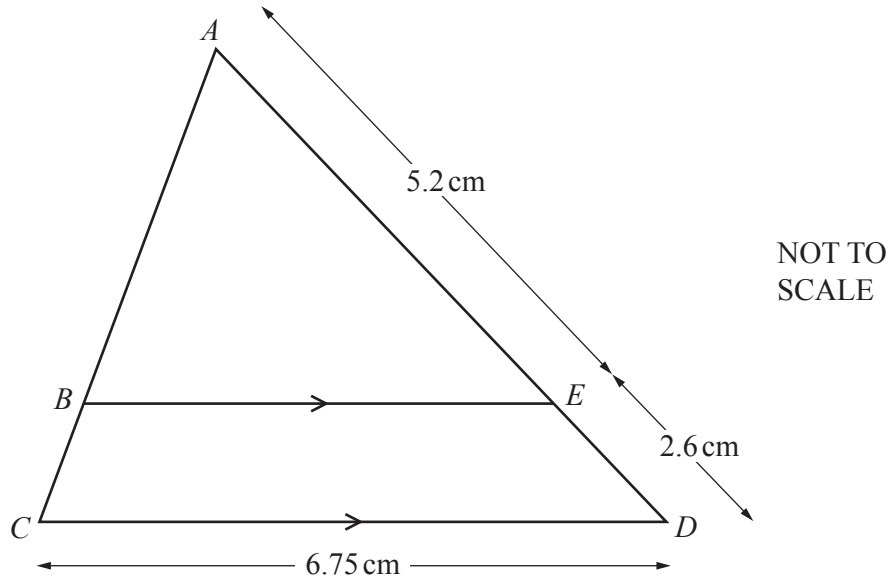


- 11 (a) Find the size of an exterior angle of a regular polygon with 18 sides.

..... [2]

(b)



In triangle  $ACD$ ,  $B$  lies on  $AC$  and  $E$  lies on  $AD$  such that  $BE$  is parallel to  $CD$ .  
 $AE = 5.2 \text{ cm}$  and  $ED = 2.6 \text{ cm}$ .

Calculate  $BE$ .

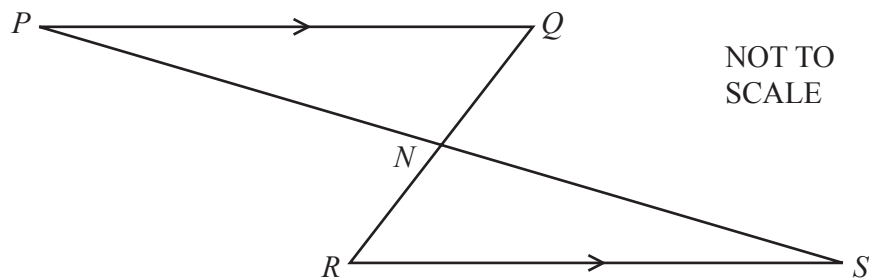
$BE =$  ..... cm [2]

- (c) Two solids are mathematically similar.  
The smaller solid has height 2 cm and volume  $32 \text{ cm}^3$ .  
The larger solid has volume  $780 \text{ cm}^3$ .

Calculate the height of the larger solid.

..... cm [3]

(d)



$PQ$  is parallel to  $RS$ ,  $PNS$  is a straight line and  $N$  is the midpoint of  $RQ$ .

Explain, giving reasons, why triangle  $PQN$  is congruent to triangle  $SRN$ .

.....  
 .....  
 .....  
 ..... [4]