16th October **Foundation Plus 5-a-day**

Corbettmaths

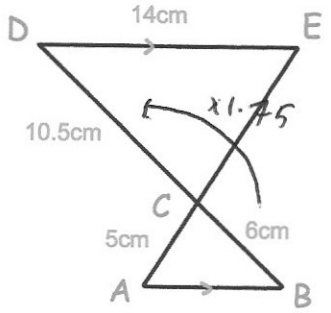
What is the sum of the interior angles for a decagon?

$(10-2) \times 180$

$= 1440°$

What is the size of each interior angle for a regular decagon?

$144°$

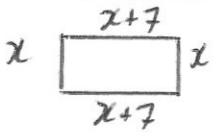


ACE and BCD are straight lines.
DE is parallel to AB.
Work out the size of CE.

$5 \times 1.75 = 8.75$ cm

A rectangular field is 7 metres longer than wide.

The perimeter of the field is 106m.



Find the area of the field.

$4x+14 = 106$

$4x = 92$

$x = 23$

$23 \times 30 = 690 m^2$

Some people went to a football match.
The ratio of the number of children to the number of adults was 2:9

Each person stood in the terraces or had a seat in the stand.
$\frac{2}{5}$ of the children stood in the terraces.

24 of the children sat in the stand.
All the adults sat in the stand.
There are exactly 250 seats in the stand.

85% of $250 = 212.5$

Were there people on more than 85% of the seats?

$\frac{3}{5}$ of children sat

$24 \div 3 = 8$

$8 \times 5 = 40$

40 children

A : C

9 : 2

180 : 40

if all adults (180) and 24 children sat, that is 204

$\frac{204}{250} = 81.6\%$ No