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ABC is a straight line.

Work out the length of *AC*. Give your answer correct to 3 significant figures.



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ABC is a straight line.

Work out the size of the angle marked *x*. Give your answer correct to 1 decimal place.



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8





9







15 The diagram shows rectangle ABCE.



The perimeter of rectangle *ABCE* is 80 cm ED: DC = 4:1

Work out the size of angle *ADE*. Give your answer correct to 1 decimal place.



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**16** *ABCDE* is a pentagon formed from three triangles.



Triangles ABC and ADE are congruent.

Work out the size of angle *DAC*. Give your answer correct to 1 decimal place.

$$an(78) = AD = 3$$
  
AD = 3 × tan(78)  
= 14.11389033

$$Sin(x) = \frac{2 \cdot 5}{14 \cdot 11...}$$

$$x = sin^{-1} \left( \frac{2 \cdot 5}{14 \cdot 11...} \right)$$

$$x = 10 \cdot 20266209$$
Angle DA( = 2x  
= 2x (0 \cdot 2 o ...  
= 20 \cdot 4 o 5 3...

(Total for Question 16 is 4 marks)

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17 A logo is made from a sector and a triangle.



..... cm<sup>2</sup>

(Total for Question 17 is 4 marks)

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