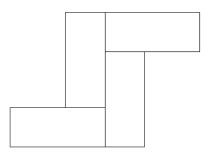
| 1 | Here  | is | а            | rectang  | le  |
|---|-------|----|--------------|----------|-----|
| - | TICIC | 19 | $\mathbf{a}$ | rectang. | IC. |



The length of the rectangle is 7 cm longer than the width of the rectangle.

4 of these rectangles are used to make this 8-sided shape.



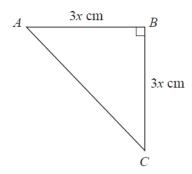
The perimeter of the 8-sided shape is 70 cm.

Work out the area of the 8-sided shape.

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

(Total for Question is 5 marks)

**2** *ABC* is an isosceles right-angled triangle.

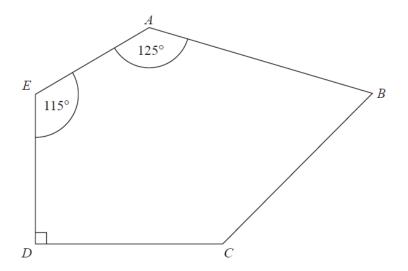


The area of the triangle is  $162\,\text{cm}^2$ 

Work out the value of x.

(Total for Question is 3 marks)

**3** *ABCDE* is a pentagon.



Angle  $BCD = 2 \times \text{angle } ABC$ 

Work out the size of angle *BCD*. You must show all your working.

(5)

**4** Ben is *n* years old. Chloe is twice as old as Ben. Dan is five years younger than Ben.

The total of Ben's age, Chloe's age and Dan's age is T years.

(a) Find a formula for T in terms of n.

| <br> |     |  |
|------|-----|--|
|      | (3) |  |

(b) In the table below, put a tick  $(\checkmark)$  in the box next to the identity.

| 3h + 2 = 14          |  |
|----------------------|--|
| 3a + 4b - 2c         |  |
| $A = \pi r^2$        |  |
| 5m - 3m = 2m         |  |
| $x + 7 \leqslant 12$ |  |

**(1)** 

(Total for Question is 4 marks)