



**Forming equations and finding the unknown.**

**Example:** Find the value of  $x$  in the figure.

	<p><b>Opposite sides of a rectangle are equal</b></p> $2x - 1 = x + 3$ $2x - 1 + 1 = x + 3 + 1$ $2x = x + 4$	$2x - x = x - x + 4$ $x = 4 \text{ cm}$
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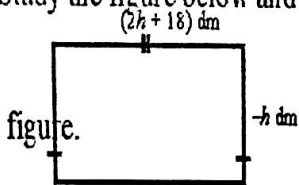
**Exercise 14:37**

Form equations and find  $x$

- (1)
- (2)
- (3)
- (4)
- (5)
- (6)
- (7)
- (8)
- (9)
- (10)
- (11)
- (12)

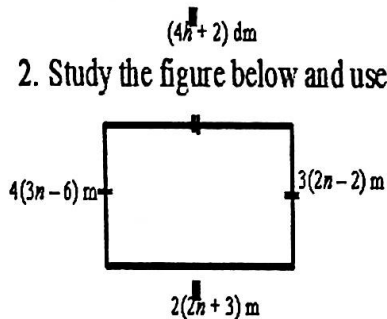
### MORE ACTIVITY

1. Study the figure below and use it to answer the questions that follow.



- a) Find the value of  $h$ .
- b) Work out the width and length of the figure.
- c) Calculate the area of the figure.
- d) Find the distance round the figure.

2. Study the figure below and use it to answer the questions that follow.

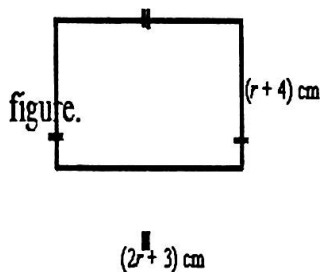


- a) Find the value of  $n$ .
- b) Work out the width of the figure.
- c) Calculate the area of the figure.
- d) Find the perimeter of the figure.

3. The sides of a rectangle are in the order of  $(x + 6)$  cm,  $(x - 2)$  cm and  $3(x - 4)$  cm.

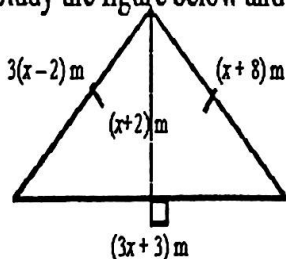
- a) Find the area of the figure.
- b) Calculate its perimeter.

4. The perimeter of the figure below is 50 cm. Use it to answer the questions that follow.



- a) Find the value of  $r$ .
- b) Work out the width and length of the figure.
- c) Calculate the area of the figure.

5. Study the figure below and use it to answer the questions that follow.



- a) Find the value of  $x$ .
- b) Work out the height of the figure.
- c) Calculate the area of the figure.
- d) Find the distance round the figure.