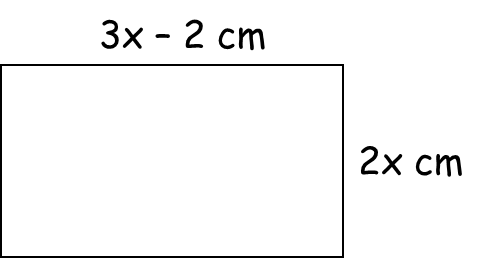
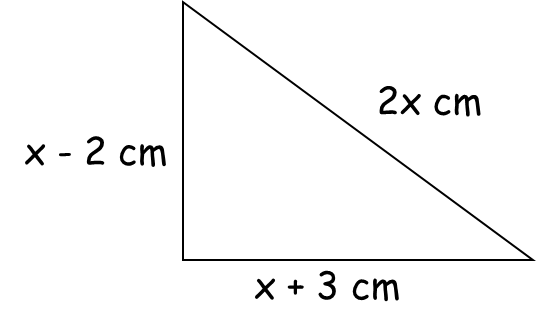
**Algebra and Shape GREEN**

1. The perimeter of this rectangle is 31 cm.

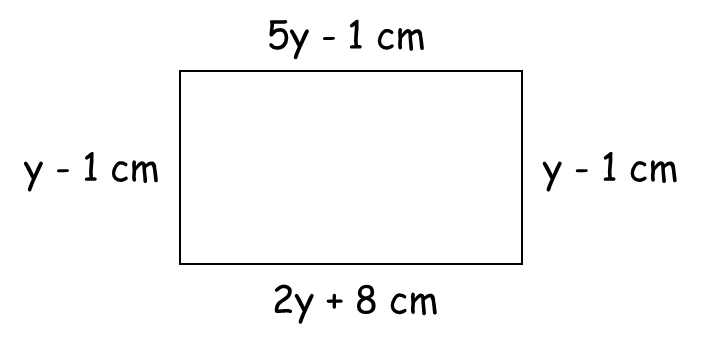
Find the value of x.

x = \_\_\_\_\_\_\_\_\_ cm

2. The perimeter of this shape is 29 cm.

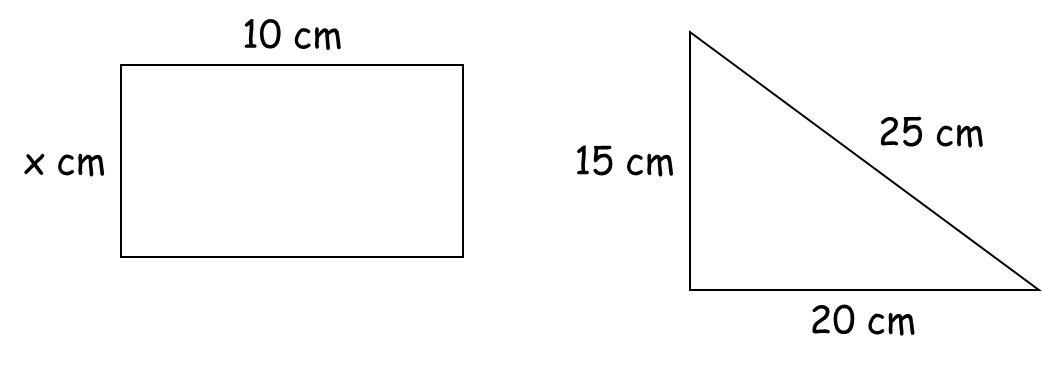
What is x?

x = \_\_\_\_\_\_\_\_\_ cm

3. A rectangle has the lengths shown

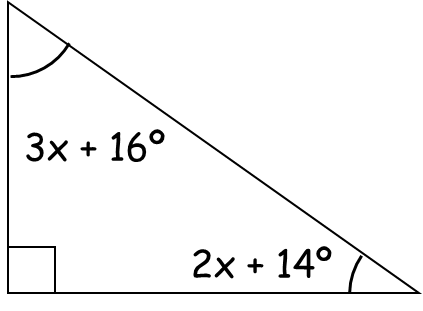
Find the perimeter of the rectangle.

Perimeter = \_\_\_\_\_\_\_\_\_ cm

4. The area of the right-angled triangle is equal to the area of the rectangle.

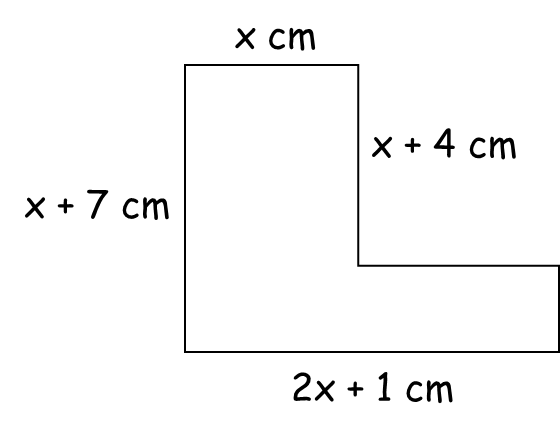
Work out the value of x.

x = \_\_\_\_\_\_\_\_\_ cm

5. The diagram shows a right-angled triangle.

Calculate the value of x.

x = \_\_\_\_\_\_\_\_\_ º

6. The area of this compound shape is 59 cm².

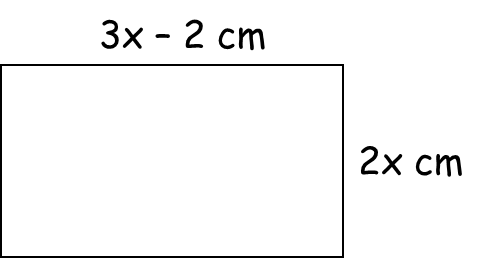
a) Find the value of x.

x = \_\_\_\_\_\_\_\_\_ cm

b) Hence calculate the perimeter of the shape.

\_\_\_\_\_\_\_\_\_ cm

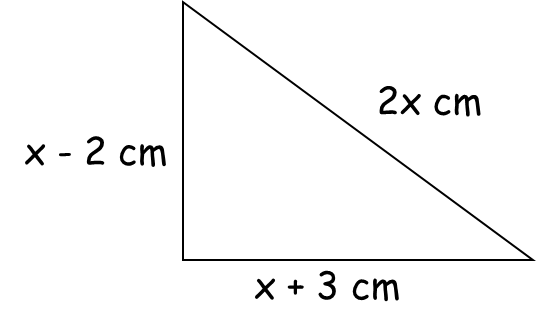
**Algebra and Shape AMBER**

1. The perimeter of this rectangle is 31 cm.

Find the value of x.

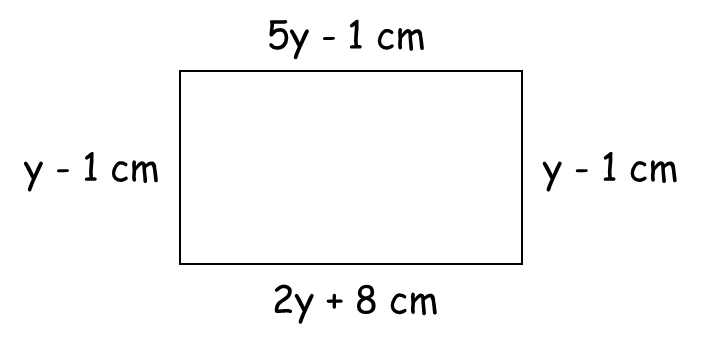
Perimeter = total distance around the edge of the shape

x = \_\_\_\_\_\_\_\_\_ cm

2. The perimeter of this shape is 29 cm.

What is x?

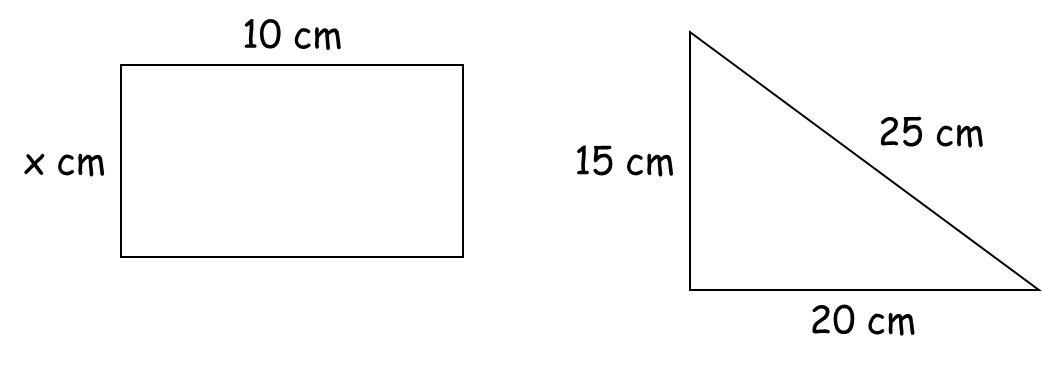
x = \_\_\_\_\_\_\_\_\_ cm

3. A rectangle has the lengths shown

Find the perimeter of the rectangle.

Use the fact that opposite sides of a rectangle are equal

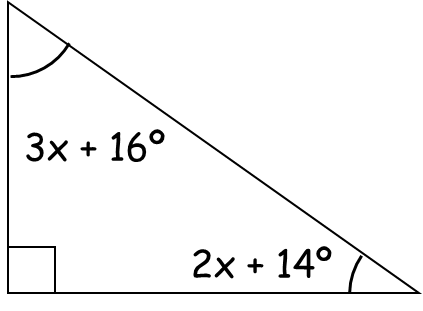
Perimeter = \_\_\_\_\_\_\_\_\_ cm

4. The area of the right-angled triangle is equal to the area of the rectangle.

Work out the value of x.

Start by calculating the area of the triangle

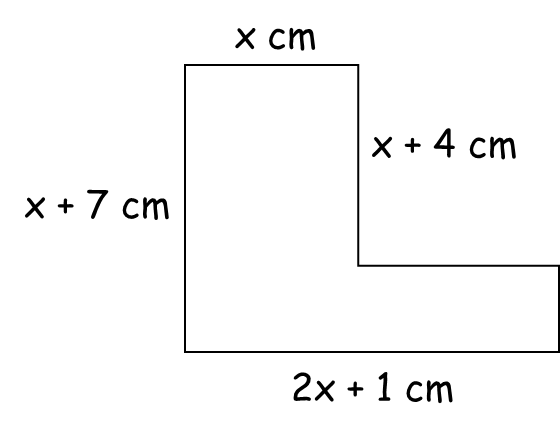
x = \_\_\_\_\_\_\_\_\_ cm

5. The diagram shows a right-angled triangle.

Calculate the value of x.

What do angles in a triangle sum to?

x = \_\_\_\_\_\_\_\_\_ º

6. The area of this compound shape is 59 cm².

a) Find the value of x.

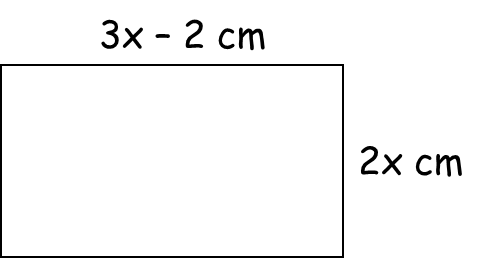
Split the shape into two rectangles!

x = \_\_\_\_\_\_\_\_\_ cm

b) Hence calculate the perimeter of the shape.

\_\_\_\_\_\_\_\_\_ cm

**Algebra and Shape RED**

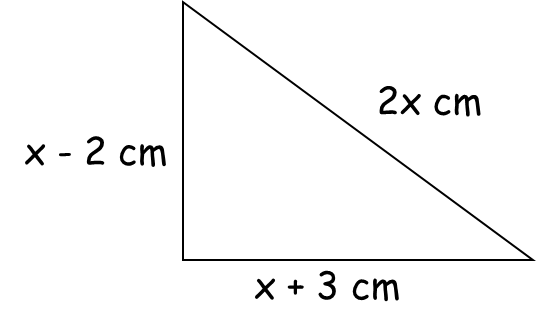
1. The perimeter of this rectangle is 31 cm.

Find the value of x.

Perimeter = total distance around the edge of the shape

3x – 2 + 2x + 3x – 2 + 2x = 31

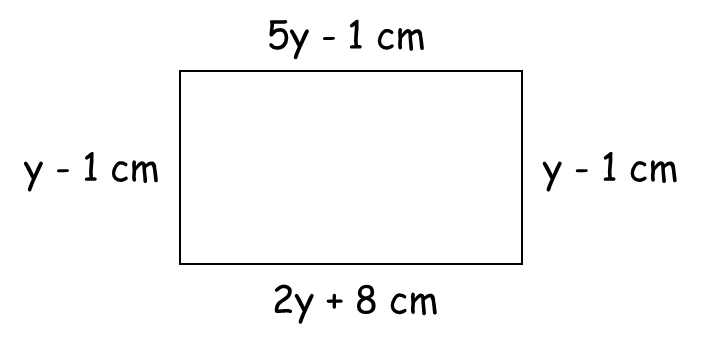
x = \_\_\_\_\_\_\_\_\_ cm

2. The perimeter of this shape is 29 cm.

What is x?

x – 2 + 2x + x + 3 = 29

x = \_\_\_\_\_\_\_\_\_ cm

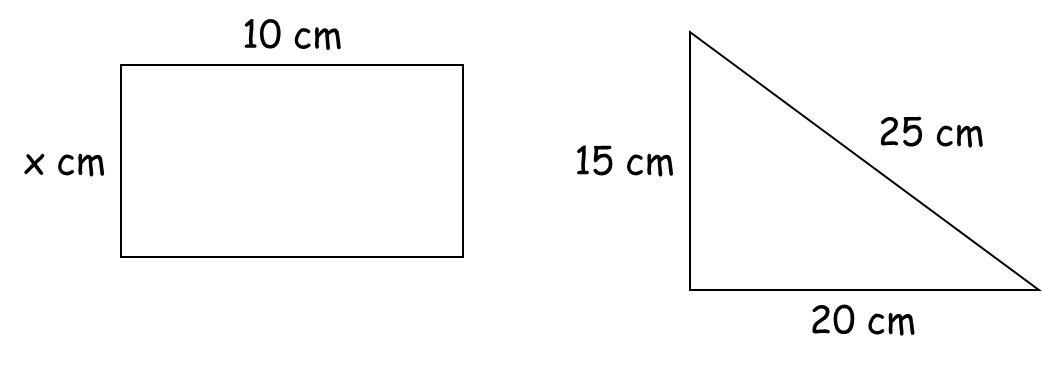
3. A rectangle has the lengths shown

Find the perimeter of the rectangle.

Use the fact that opposite sides of a rectangle are equal

5y – 1 = 2y + 8

Perimeter = \_\_\_\_\_\_\_\_\_ cm

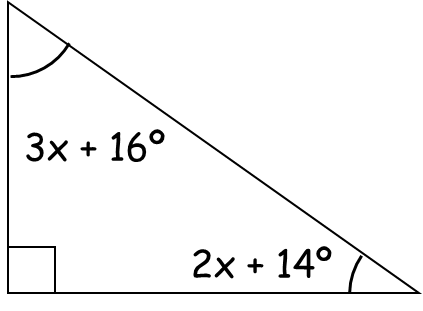
4. The area of the right-angled triangle is equal to the area of the rectangle.

Work out the value of x.

Start by calculating the area of the triangle

Area = ½ x 15 x 20

x = \_\_\_\_\_\_\_\_\_ cm

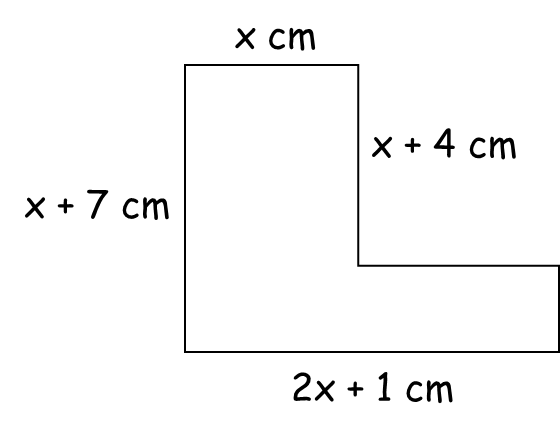
5. The diagram shows a right-angled triangle.

Calculate the value of x.

What do angles in a triangle sum to?

3x + 16 + 2x + 14 + 90 = \_\_\_\_\_

x = \_\_\_\_\_\_\_\_\_ º

6. The area of this compound shape is 59 cm².

a) Find the value of x.

Split the shape into two rectangles!

x = \_\_\_\_\_\_\_\_\_ cm

b) Hence calculate the perimeter of the shape.

\_\_\_\_\_\_\_\_\_ cm