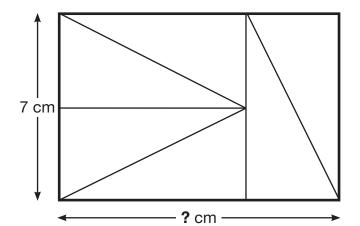
Six identical right-angled triangles are arranged to make a rectangle.



Not actual size

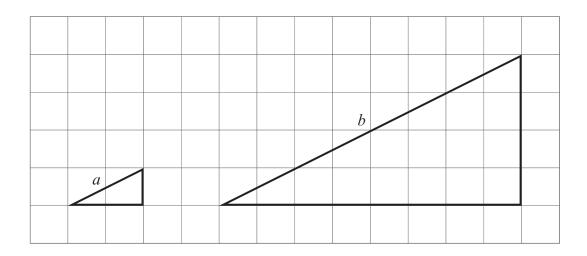
Calculate the **length** of the rectangle.



1 mark



Here are two similar right-angled triangles.



Write the ratio of side a to side b.

$$a:b=$$

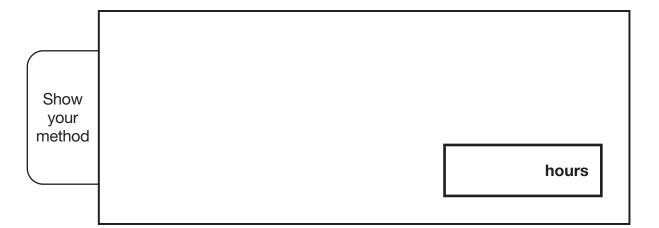
1 mark

23

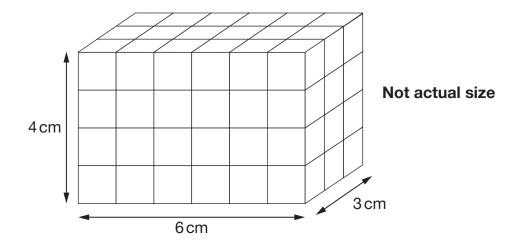
The length of a day on Earth is 24 hours.

The length of a day on Mercury is $58\frac{2}{3}$ times the length of a day on Earth.

What is the length of a day on Mercury, in hours?

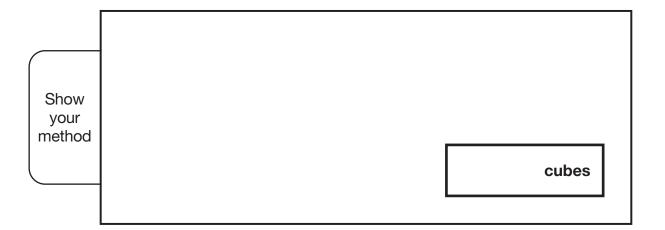


Amina made this cuboid using centimetre cubes.



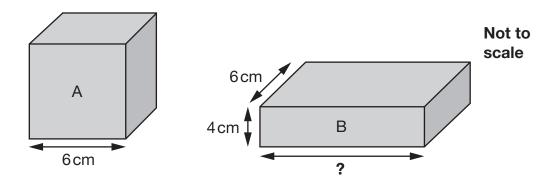
Stefan makes a cuboid that is 5 cm longer, 5 cm taller and 5 cm wider than Amina's cuboid.

What is the **difference** between the number of cubes in Amina's and Stefan's cuboids?

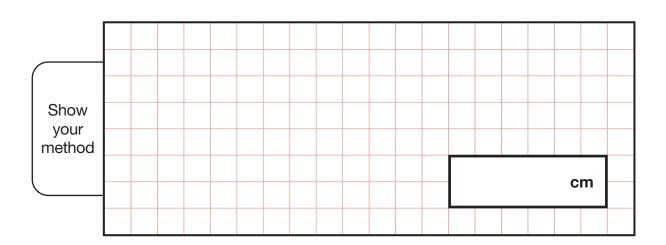




Cube A and cuboid B have the same volume.

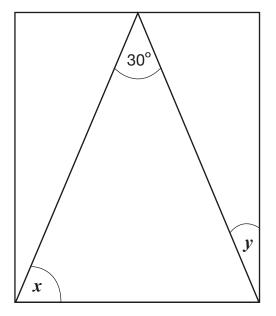


Calculate the missing length on cuboid B.





Here is an **isosceles** triangle inside a rectangle.



Not to scale

Calculate the sizes of angles x and y.

