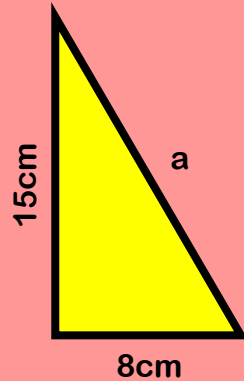
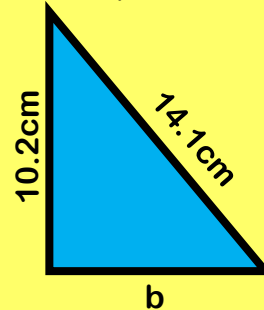


Quiz Quiz Trade Starting Positions

Work out the length of the missing side:



Work out the length of the missing side to 2 decimal places:



A boat travels due North 5.7 km. The boat then turns and travels due East for 7.2 km. Work out the distance between the boat's finishing position and its starting point.

Solution:

Solution:

Solution:

Pythagoras' Theorem

Quiz Quiz Trade Answers

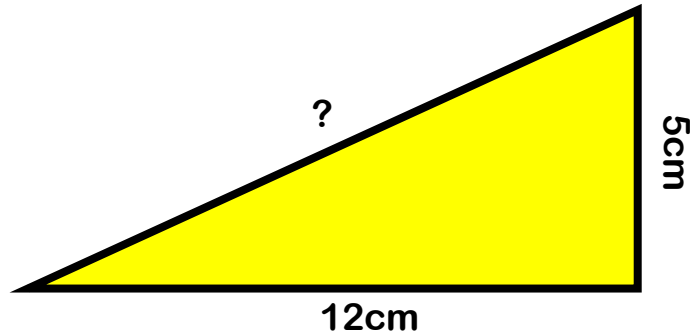
Red	
R1	13cm
R2	41cm
R3	10cm
R4	3.16cm
R5	3.61cm
R6	5cm
R7	8.54cm
R8	14.56cm
R9	10.26cm
R10	15.57cm
R11	10.06cm
R12	6.93cm
R13	4.72cm
R14	22.81cm
R15	15.40cm
R16	10.72cm

Yellow	
Y1	8cm
Y2	15cm
Y3	2cm
Y4	9cm
Y5	24cm
Y6	24cm
Y7	11.49cm
Y8	9.38cm
Y9	9.17cm
Y10	11.53cm
Y11	13.27cm
Y12	4.12cm
Y13	11.62cm
Y14	12.33cm
Y15	7.94cm
Y16	0.87cm

Green	
G1	7.42cm
G2	3.47m
G3	55.43cm ²
G4	26.97cm
G5	x=14.87cm, y=8.25cm
G6	5
G7	9.43cm
G8	No, not right-angled
G9	28.27km
G10	14.14cm
G11	36.64cm
G12	296.10cm ²
G13	4.57m
G14	57.12cm ²
G15	6.40cm
G16	100cm ²

Quiz Quiz Trade

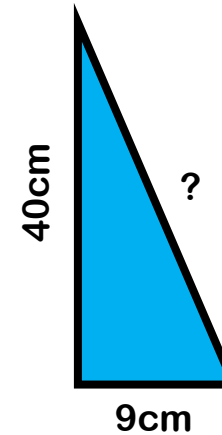
Work out the length of the missing side:



R1

Quiz Quiz Trade

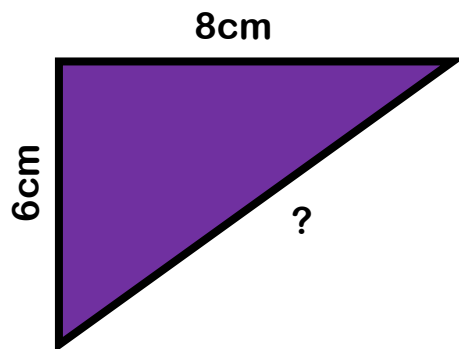
Work out the length of the missing side:



R2

Quiz Quiz Trade

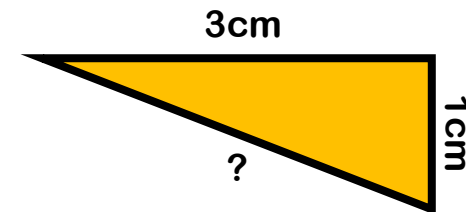
Work out the length of the missing side:



R3

Quiz Quiz Trade

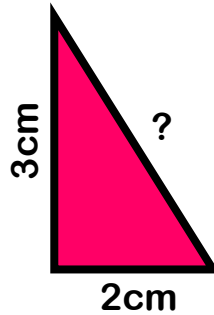
Work out the length of the missing side to 2 decimal places:



R4

Quiz Quiz Trade

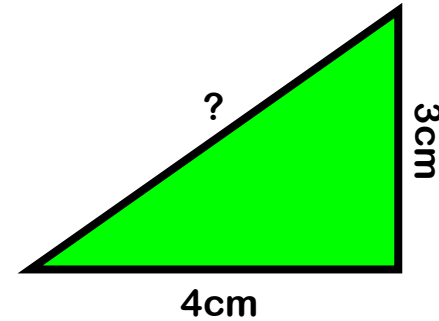
Work out the length of the missing side to 2 decimal places:



R5

Quiz Quiz Trade

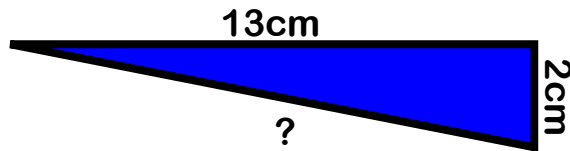
Work out the length of the missing side:



R6

Quiz Quiz Trade

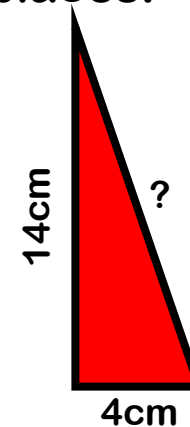
Work out the length of the missing side to 2 decimal places:



R7

Quiz Quiz Trade

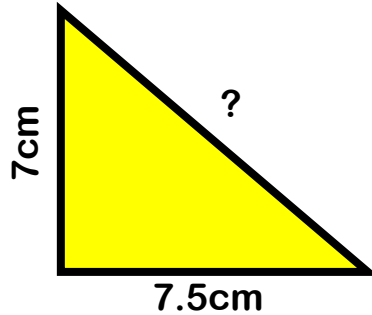
Work out the length of the missing side to 2 decimal places:



R8

Quiz Quiz Trade

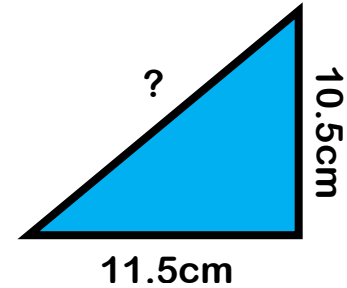
Work out the length of the missing side to 2 decimal places:



R9

Quiz Quiz Trade

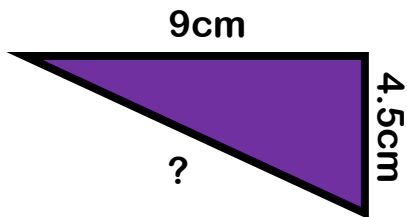
Work out the length of the missing side to 2 decimal places:



R10

Quiz Quiz Trade

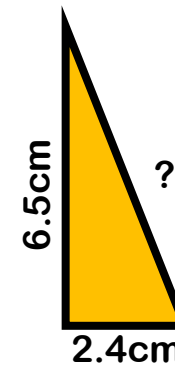
Work out the length of the missing side to 2 decimal places:



R11

Quiz Quiz Trade

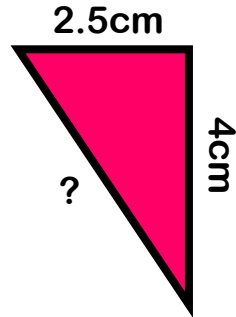
Work out the length of the missing side to 2 decimal places:



R12

Quiz Quiz Trade

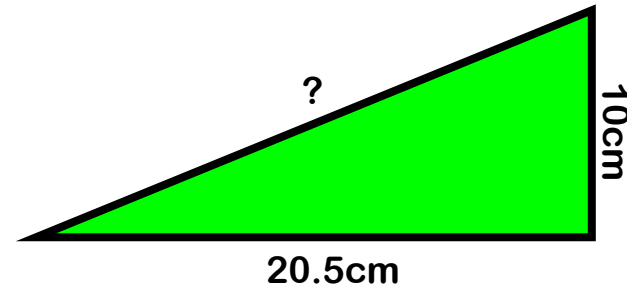
Work out the length of the missing side to 2 decimal places:



R13

Quiz Quiz Trade

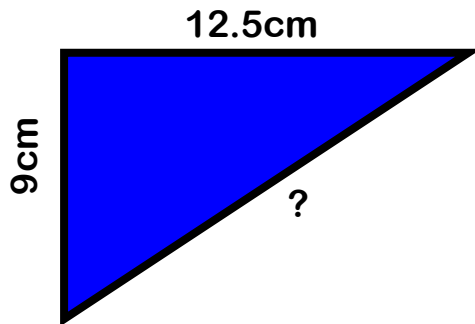
Work out the length of the missing side to 2 decimal places:



R14

Quiz Quiz Trade

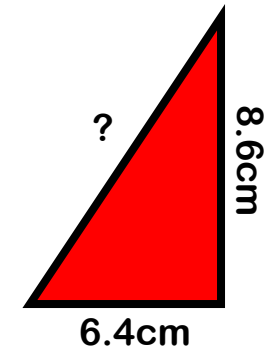
Work out the length of the missing side to 2 decimal places:



R15

Quiz Quiz Trade

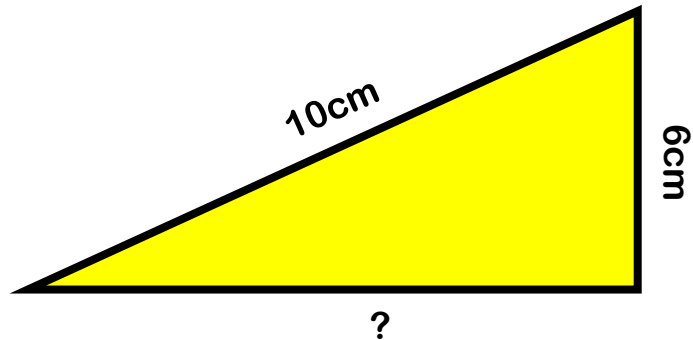
Work out the length of the missing side to 2 decimal places:



R16

Quiz Quiz Trade

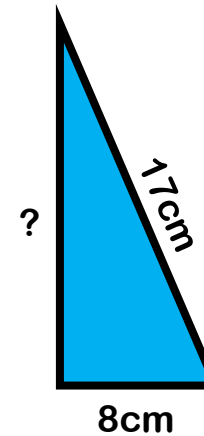
Work out the length of the missing side:



Y1

Quiz Quiz Trade

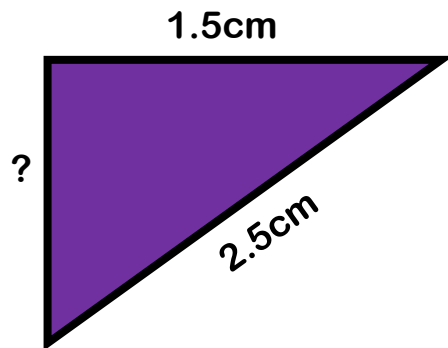
Work out the length of the missing side:



Y2

Quiz Quiz Trade

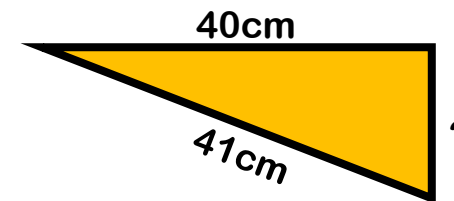
Work out the length of the missing side:



Y3

Quiz Quiz Trade

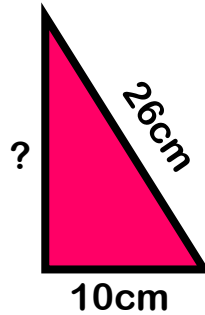
Work out the length of the missing side:



Y4

Quiz Quiz Trade

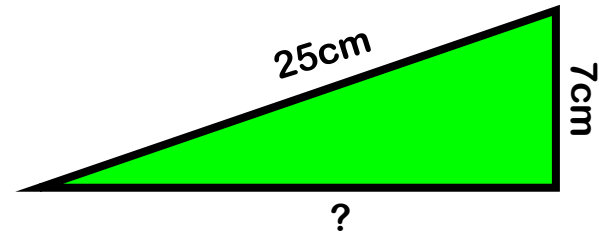
Work out the length of the missing side:



Y5

Quiz Quiz Trade

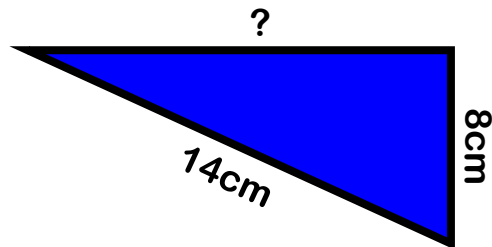
Work out the length of the missing side:



Y6

Quiz Quiz Trade

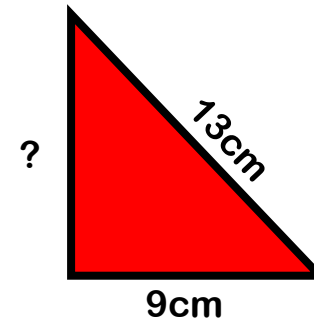
Work out the length of the missing side to 2 decimal places:



Y7

Quiz Quiz Trade

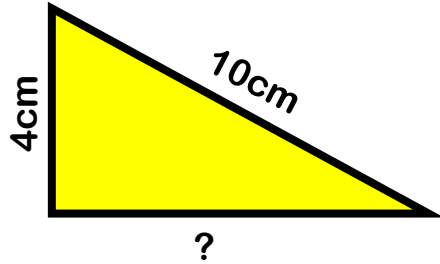
Work out the length of the missing side to 2 decimal places:



Y8

Quiz Quiz Trade

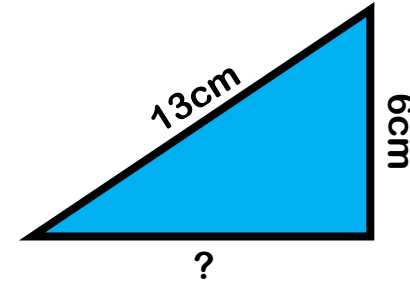
Work out the length of the missing side to 2 decimal places:



Y9

Quiz Quiz Trade

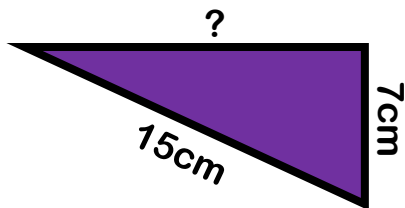
Work out the length of the missing side to 2 decimal places:



Y10

Quiz Quiz Trade

Work out the length of the missing side to 2 decimal places:



Y11

Quiz Quiz Trade

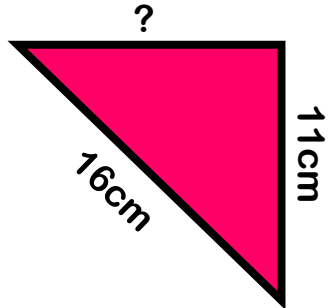
Work out the length of the missing side to 2 decimal places:



Y12

Quiz Quiz Trade

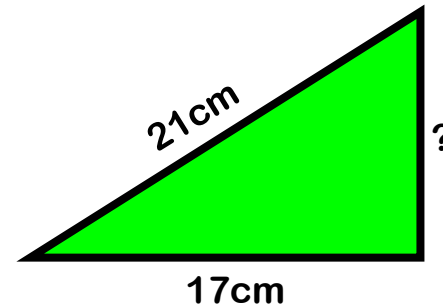
Work out the length of the missing side to 2 decimal places:



Y13

Quiz Quiz Trade

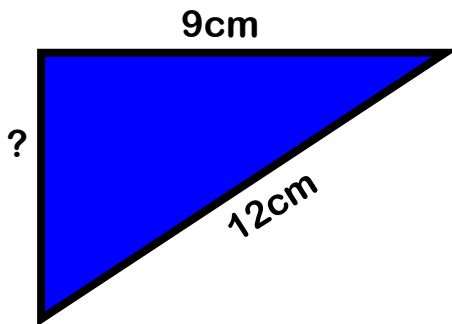
Work out the length of the missing side to 2 decimal places:



Y14

Quiz Quiz Trade

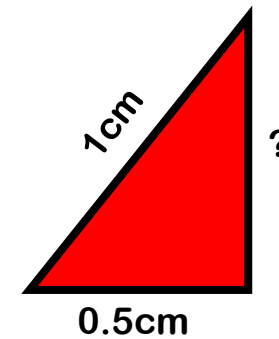
Work out the length of the missing side to 2 decimal places:



Y15

Quiz Quiz Trade

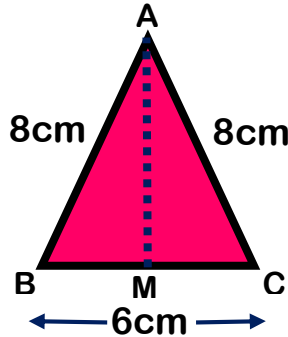
Work out the length of the missing side to 2 decimal places:



Y16

Quiz Quiz Trade

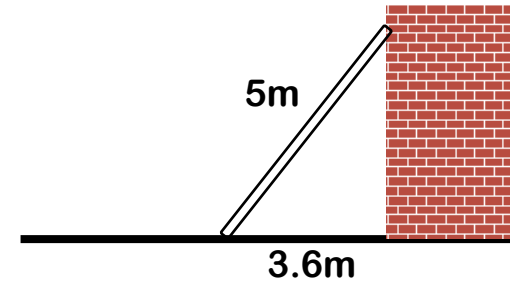
The diagram shows an isosceles triangle ABC. The midpoint of BC is the point M. In the triangle $AB = AC = 8\text{cm}$ and $BC = 6\text{cm}$. Work out the height, AM, of the triangle.



G1

Quiz Quiz Trade

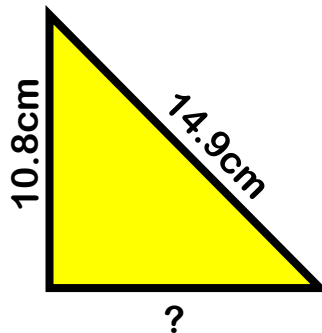
The diagram shows a ladder leaning against a vertical wall. The foot of the ladder is on horizontal ground. The length of the ladder is 5m. The foot of the ladder is 3.6m from the wall. Work out how far up the wall the ladder reaches. Give your answer correct to 2 decimal places.



G2

Quiz Quiz Trade

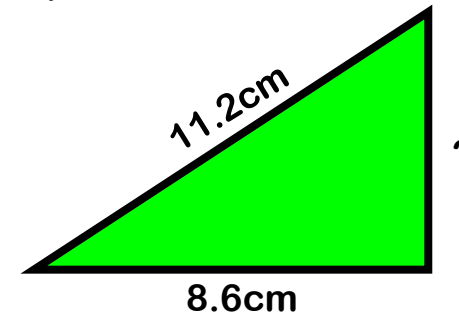
Work out the area of this triangle to 2 decimal places:



G3

Quiz Quiz Trade

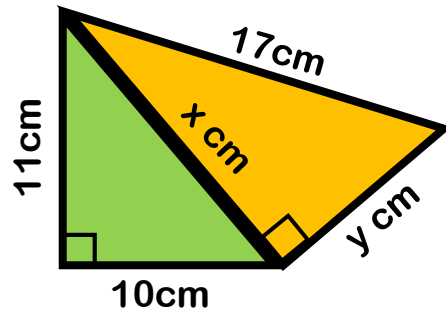
Work out the perimeter of this triangle to 2 decimal places:



G4

Quiz Quiz Trade

Work out the lengths of the missing sides to 2 decimal places:



G5

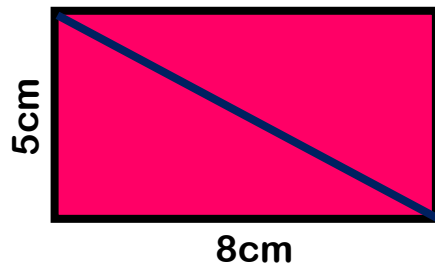
Quiz Quiz Trade

Work out the length of the line joining (1, 3) and (5, 6).

G6

Quiz Quiz Trade

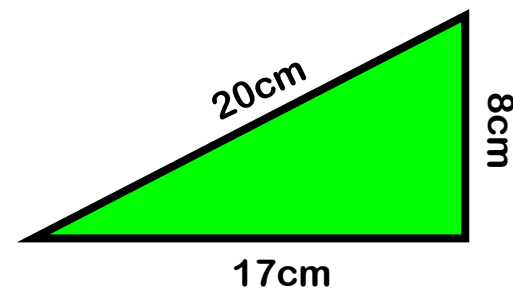
The diagram shows a rectangle of length 8cm and width 5cm. Work out the length of a diagonal of the rectangle to 3 significant figures.



G7

Quiz Quiz Trade

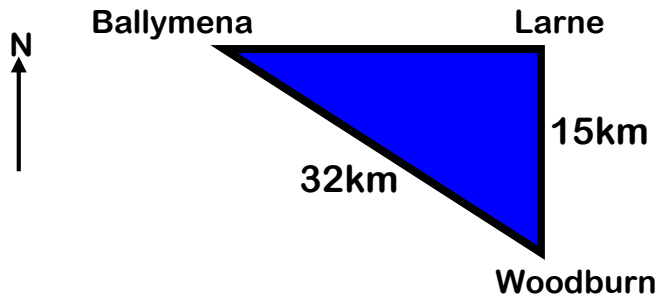
Decide if this is a right-angled triangle:



G8

Quiz Quiz Trade

Ballymena is due West of Larne. Woodburn is 15km due South of Larne. Ballymena is 32km from Woodburn. Calculate the distance of Larne from Ballymena in kilometres to 2 decimal places.

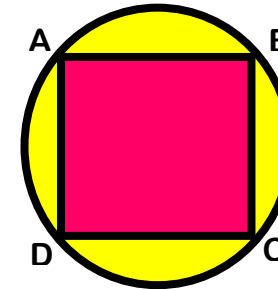


G9

Quiz Quiz Trade

A, B, C and D are four points on the circumference of a circle.

ABCD is a square with sides 10cm long. Work out the diameter, BD, of the circle to 2 decimal places.



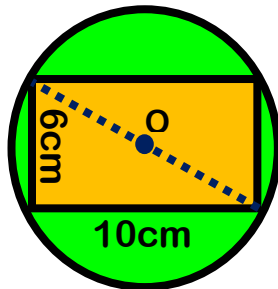
G10

Quiz Quiz Trade

The diagram shows a rectangle drawn inside a circle, centre O.

The rectangle is 10cm long and 6cm wide.

Calculate the circumference of the circle to 2 decimal places.



G11

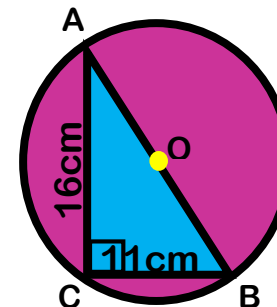
Quiz Quiz Trade

The diagram shows triangle ABC and circle, centre O.

A, B and C are points on the circumference of the circle. AB is a diameter of the circle.

AC = 15cm and BC = 11cm and angle ACB = 90°.

Work out the area of the circle to 2 decimal places.

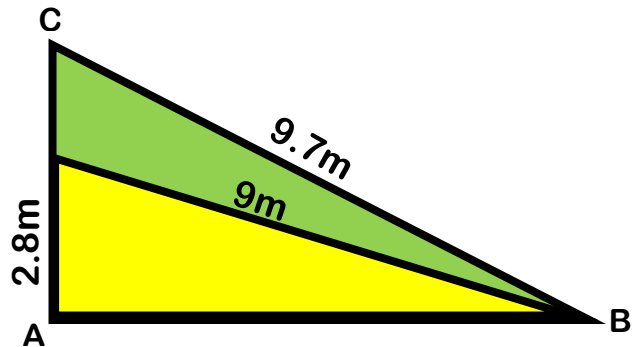


G12

Quiz Quiz Trade

The diagram shows a tower.

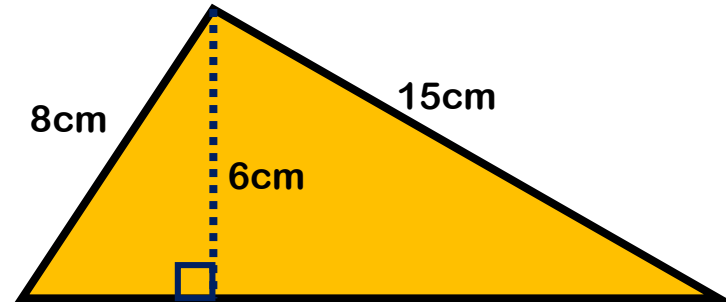
Work out the height of the tower AC to 2 decimal places.



G13

Quiz Quiz Trade

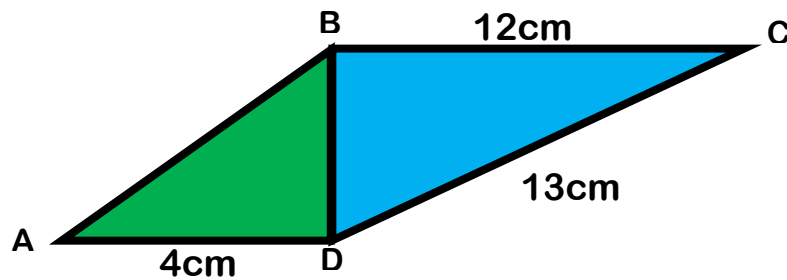
Calculate the area of this triangle to 2 decimal places:



G14

Quiz Quiz Trade

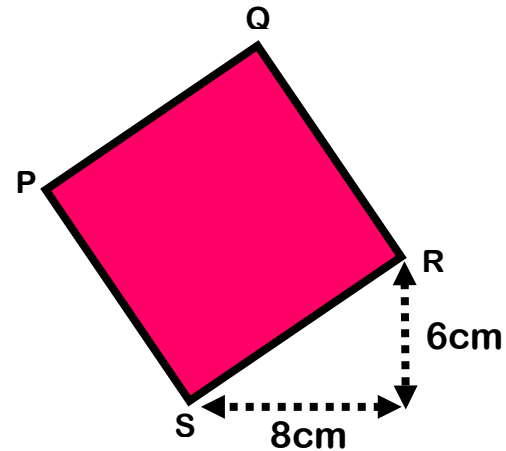
Find the length of AB to 2 decimal places.



G15

Quiz Quiz Trade

Find the area of the square PQRS:



G16