

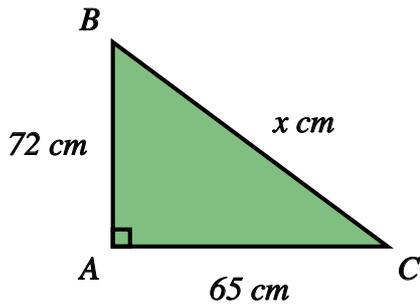
# Pythagoras

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Mark \_\_\_\_\_ / 16 \_\_\_\_\_ %

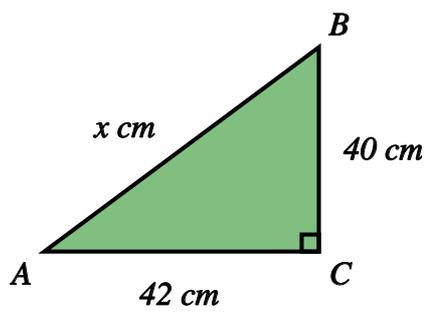
1) Find the missing length in the triangle pictured below

[1]



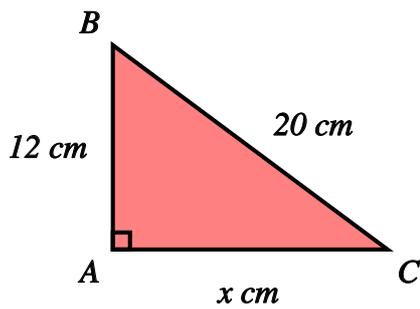
2) Find the missing length in the triangle pictured below

[1]



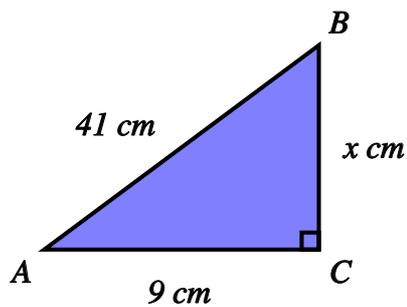
3) Find the missing length in the triangle pictured below

[1]



4) Find the missing length in the triangle pictured below

[1]



5) A right-angled triangle has two short side of length  $91\text{ cm}$  and  $60\text{ cm}$ . Find the length of the hypotenuse.

[1]

6) A right-angled triangle has two short side of length  $56\text{ cm}$  and  $90\text{ cm}$ . Find the length of the hypotenuse.

[1]

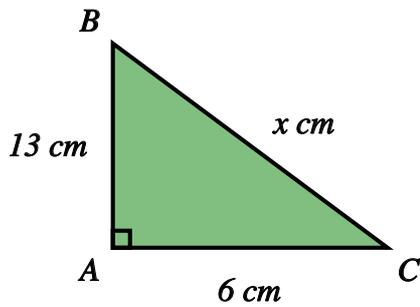
7) A right-angled triangle has a hypotenuse of length  $117\text{ cm}$  and one short side of length  $45\text{ cm}$ . Find the length of the other short side.

[1]

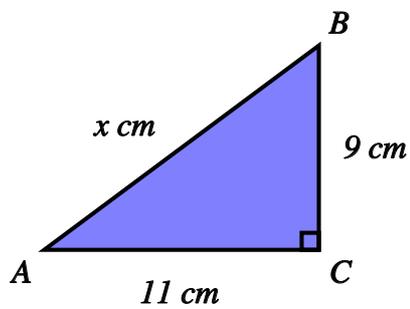
8) A right-angled triangle has a hypotenuse of length 13 cm and one short side of length 5 cm. Find the length of the other short side.

[1]

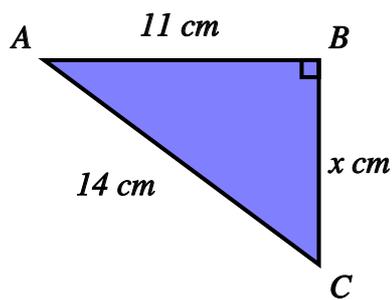
9) Find the missing length in the triangle pictured below, giving your answer to 3 significant figures [1]



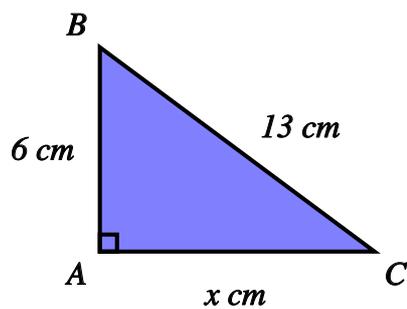
10) Find the missing length in the triangle pictured below, giving your answer to 3 significant figures [1]



11) Find the missing length in the triangle pictured below, giving your answer to 3 significant figures [1]



12) Find the missing length in the triangle pictured below, giving your answer to 3 significant figures [1]



13) A right-angled triangle has short sides of length 7 cm and 12 cm. Find the length of the hypotenuse, giving your answer to 3 significant figures.

[1]

14) A right-angled triangle has short sides of length 10 cm and 11 cm. Find the length of the hypotenuse, giving your answer to 3 significant figures.

[1]

15) A right-angled triangle has a hypotenuse of length 12 cm and a short side of length 9 cm. Find the length of the other short side, giving your answer to 3 significant figures.

[1]

**16)** A right-angled triangle has a hypotenuse of length 14 cm and a short side of length 11 cm. Find the length of the other short side, giving your answer to 3 significant figures.

[1]

## Solutions for the assessment Pythagoras

1)  $x = 97$  cm

2)  $x = 58$  cm

3)  $x = 16$  cm

4)  $x = 40$  cm

5)  $x = 109$  cm

6)  $x = 106$  cm

7)  $x = 108$  cm

8)  $x = 12$  cm

9)  $x = 14.3$  cm

10)  $x = 14.2$  cm

11)  $x = 8.66$  cm

12)  $x = 11.5$  cm

13)  $x = 13.9$  cm

14)  $x = 14.9$  cm

15)  $x = 7.94$  cm

16)  $x = 8.66$  cm