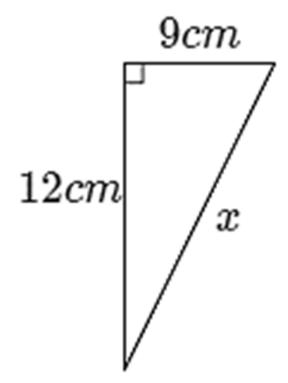
### Review and Feedback

CHG

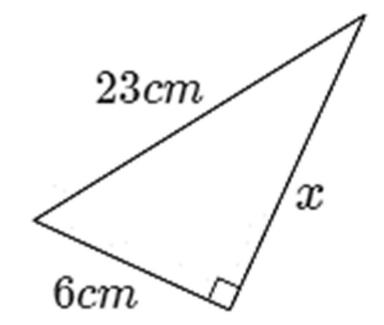
 $\mathbf{Q1}$ ) Find x (2dp):



You can find the hypotenuse. (A01)

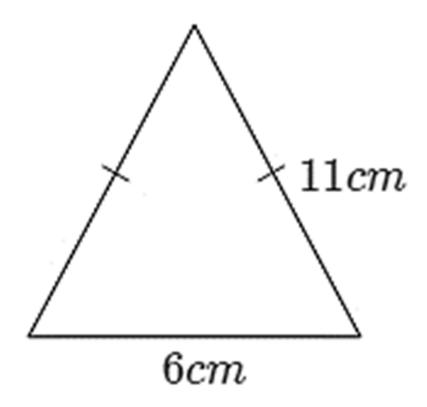
CHG

Q2) Find x to the nearest cm:



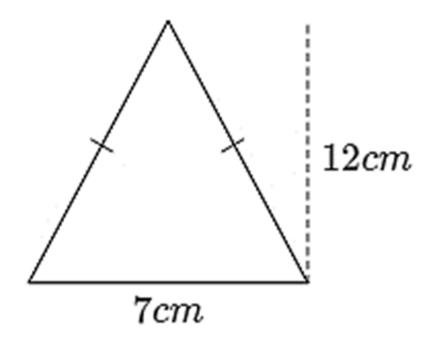
You can find the shorter side (A01)

# Q3) Find the area of this triangle



You can do 2 steps Pythagoras problem. (A01)

## Q4) Find perimeter of this triangle



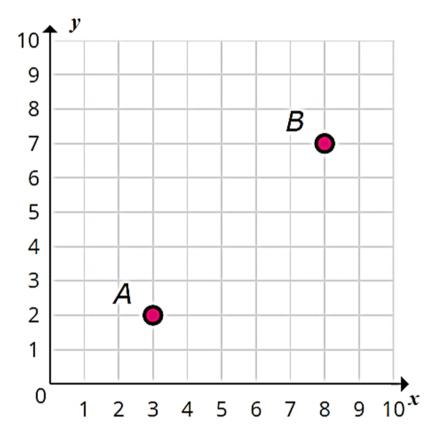
You can do 2 steps Pythagoras problem. (A01)

Q5) Here are lengths of sides of four triangles. Which triangle is right-angled?

- 5cm, 12cm, 17cm
- 11cm, 11cm, 18cm
- 5cm, 6cm, 7cm
- 21cm, 28cm, 35cm

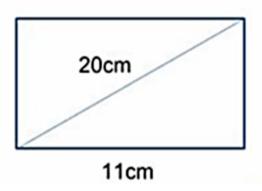
You can do reasoning problem (A02).

Q6) Calculate the distance between A and B.



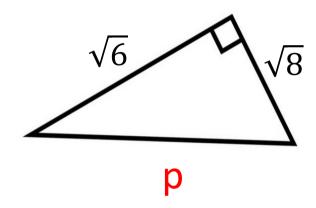
You can solve more complex problem.

The diagram shows a rectangle made of wire. Find the total length of wire used to make the shape (including the diagonal) to 2 decimal places.



You can do problem solving question (A03).

Q8) Calculate the length of side p.
Leave your answer in surd form.

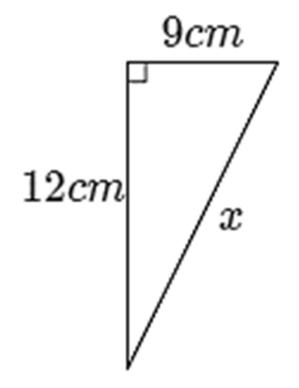


You can solve problem with surds.

Teacher's comment ATL Grade:

### Review and Feedback

Find x (2dp):



$$A^2 + b^2 = c^2$$

$$9^{2} + 12^{2} = x^{2}$$

$$\chi^2 = 225$$

$$x = \sqrt{225}$$

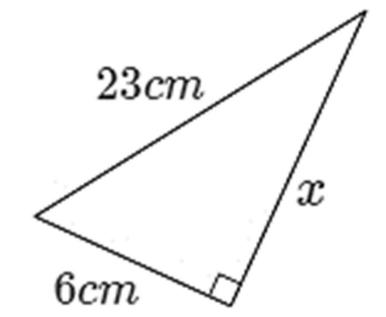
$$x = 15$$
 cm

You can find the hypotenuse. (A01)

**CHG** 

Q2)

Find x to the nearest cm:



 $x^{2} + 6^{2} = 23$   $x^{2} + 36 = 529$  (-36) (-36)

$$x^{2} = 529 - 36$$

$$x^{2} = 493$$

$$x = \sqrt{493}$$

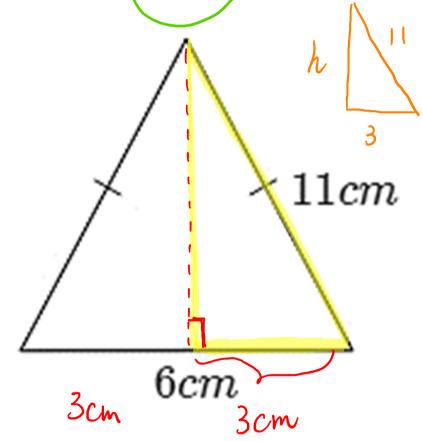
$$x = 22.2 \text{ cm} / \frac{2200}{200}$$

You

You can find the shorter side (A01)

CHG

# Q3) Find the area of this triangle



#### **ANSWER**

$$A^{2} + b^{2} = C$$

$$h^{2} + 3^{2} = 11$$

$$h^{2} + 9 = 121$$

$$h^{2} = 121 - 9$$

$$h^{2} = 112$$

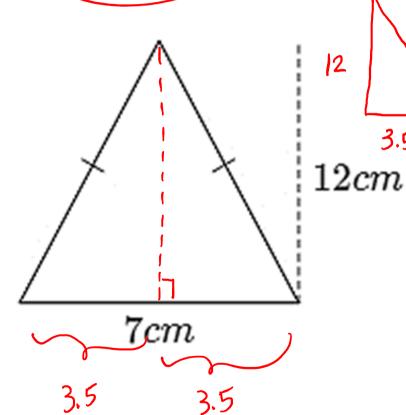
$$h = \sqrt{112}$$

$$Area = \frac{bxh}{2} = \frac{6 \times 10.58}{2} = 31.75 \text{ cm}$$

You can do 2 steps Pythagoras problem. (A01)  $\frac{6 \times 10.58}{2} = \frac{6 \times 10.58}{2} = \frac{31.75 \text{ cm}}{2}$ 

Find perimeter of this triangle

$$a^2 tb^2 = c^3$$



$$12 + 3.5 = X$$

$$144 + 12.25 = X^{2}$$

$$X^{2} = 156.25$$

$$X = \sqrt{56.25}$$

$$X = 12.5$$

3.5

perimeter:
$$12.5 \land 12.5 \qquad 12.5 + 12.5 + 7$$

$$= 32 cm$$

You can do 2 steps Pythagoras problem. (A01)

Here are lengths of sides of four triangles.

- Which triangle is right-angled? The longest side must be 5cm, 12cm, 17cm  $5+12 \neq 17$  hypotenuse. Therefore C.
- 11cm, 11cm, 18cm  $|1+1|^2 \neq 18^2$
- $a^2+b^2=c^2$
- 5cm, 6cm, 7cm  $5^2 + 6^2 \neq 7^2$

21cm, 28cm, 35cm 
$$21^{2} + 28^{2} = 35^{2}$$

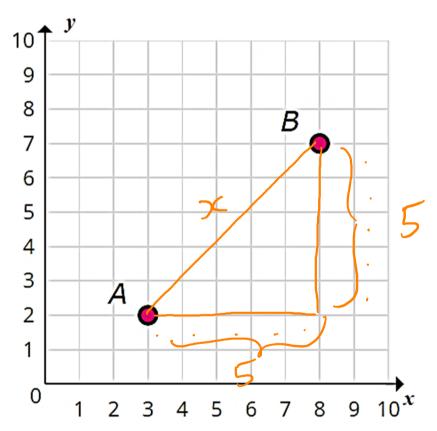
$$441 + 7f4 = 1225$$

$$1225 = 1225$$

You can do reasoning problem (A02).

### **ANSWER**

### Q6) Calculate the distance between A and B.



$$5 + 5 = X$$

$$25 + 25 = X$$

$$25 + 25 = X$$

$$x^{2} = 50$$

$$X = \sqrt{50}$$

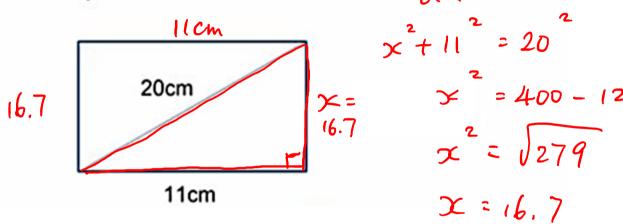
$$X = 7.07$$

You can solve more complex problem.

The diagram shows a rectangle made of wire. Find the ANSWER

length of wire used to make the shape (including the

diagonal) to 2 decimal places.



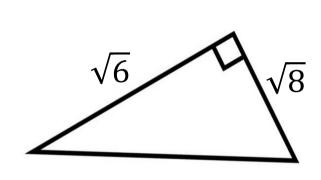
All wire used: 
$$11 + 11 + 16.7 + 16.7 + 20$$

$$= 75.4 cm$$

You can do problem solving question (A03).

#### **ANSWER**

Q8) Calculate the length of side p.
Leave your answer in surd form.



p

$$a^2+b^2=c^2$$

$$(56)^{2} + (58)^{2} = \rho^{2}$$

$$6 + 8 = \rho^{2}$$

$$14 = \rho^{2}$$

$$\rho = 514$$

You can solve problem with surds.

Teacher's comment ATL Grade: