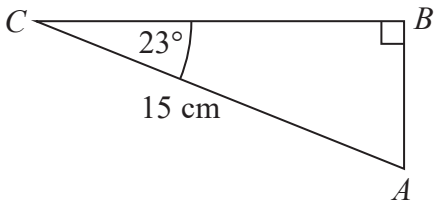
Summer 2017 Paper 3 Q7

1 *ABC* is a right-angled triangle.



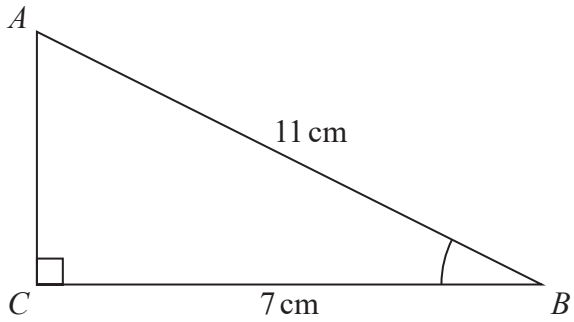
Calculate the length of *AB*.
Give your answer correct to 3 significant figures.

.....cm

(Total for Question 1 is 2 marks)

Summer 2018 Paper 3 Q5

2 *ABC* is a right-angled triangle.



(a) Work out the size of angle *ABC*.
Give your answer correct to 1 decimal place.

.....°

(2)

The length of the side *AB* is reduced by 1 cm.

The length of the side *BC* is still 7 cm.
Angle *ACB* is still 90°

(b) Will the value of cos *ABC* increase or decrease?
You must give a reason for your answer.

.....

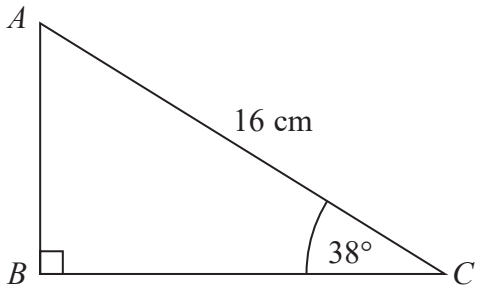
.....

(1)

(Total for Question 2 is 3 marks)

Summer 2019 Paper 2 Q5

3 *ABC* is a right-angled triangle.



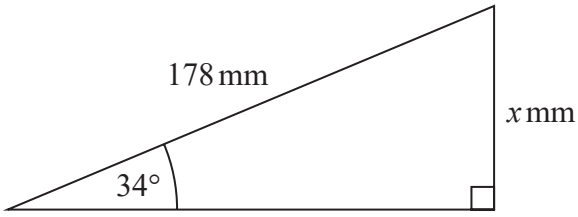
Calculate the length of *AB*.
Give your answer correct to 2 decimal places.

.....cm

(Total for Question 3 is 2 marks)

Summer 2020 Paper 2 Q5

4



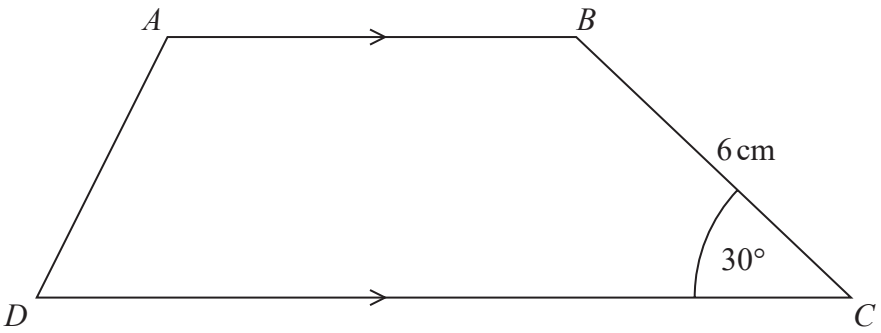
Work out the value of x.
Give your answer correct to 1 decimal place.

.....

(Total for Question 4 is 2 marks)

Summer 2021 Paper 1 Q18

5 Here is trapezium $ABCD$.



The area of the trapezium is $66\,cm^2$

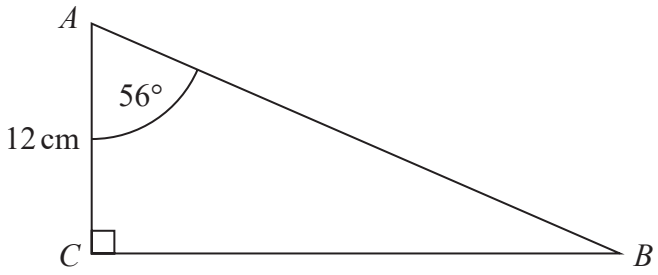
the length of AB : the length of $CD = 2 : 3$

Find the length of AB.

..... cm

(Total for Question 5 is 5 marks)

6 *ABC* is a right-angled triangle.

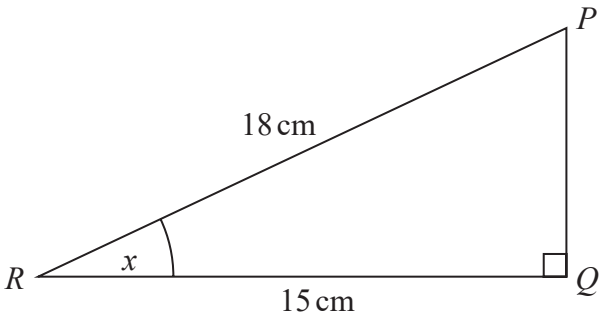


(a) Work out the length of *BC*.
Give your answer correct to 1 decimal place.

..... cm

(2)

PQR is a right-angled triangle.



(b) Work out the size of the angle marked *x*.
Give your answer correct to 1 decimal place.

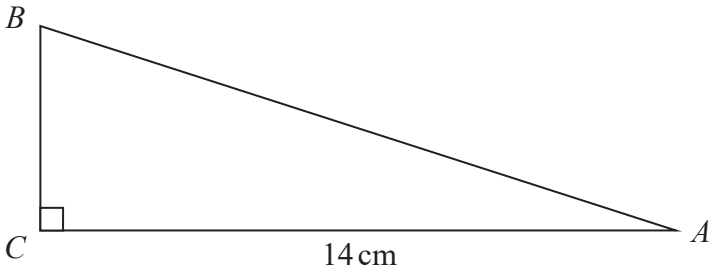
.....°

(2)

(Total for Question 6 is 4 marks)

Autumn 2018 Paper 3 Q6

7 *ABC* is a right-angled triangle.



AC = 14 cm.
Angle *C* = 90°

size of angle *B* : size of angle *A* = 3 : 2

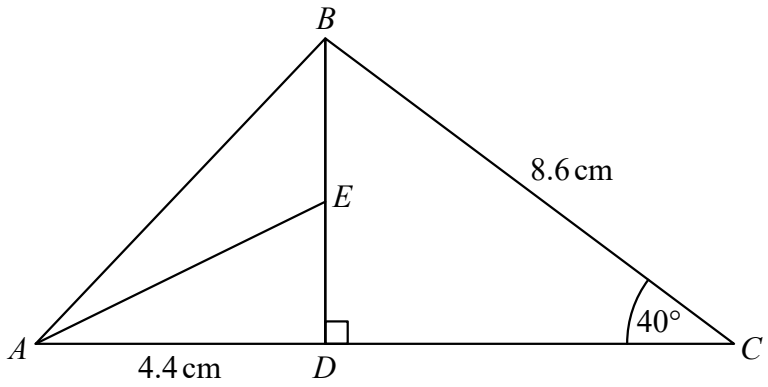
Work out the length of *AB*.
Give your answer correct to 3 significant figures.

..... cm

(Total for Question 7 is 4 marks)

Autumn 2019 Paper 2 Q12

8 The diagram shows triangle *ABC*.



ADC and *DEB* are straight lines.

AD = 4.4 cm
BC = 8.6 cm
E is the midpoint of *DB*.

Angle *CDB* = 90°
Angle *DCB* = 40°

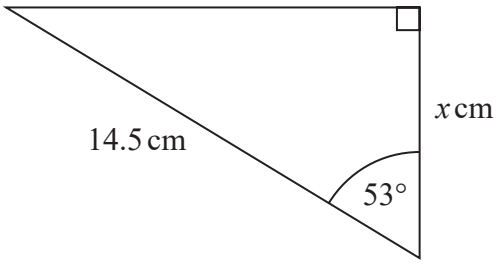
Work out the size of angle *EAD*.
Give your answer correct to 1 decimal place.
You must show all your working.

.....°

(Total for Question 8 is 4 marks)

Autumn 2022 Paper 2 Q5

9



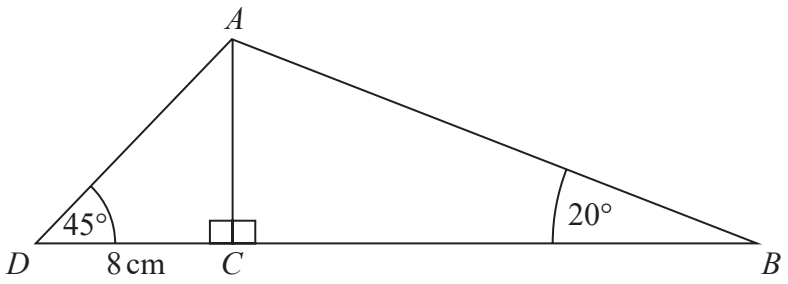
Work out the value of x.
Give your answer correct to 3 significant figures.

$x =$ .....

(Total for Question 9 is 2 marks)

Summer 2022 Paper 3 Q12

10 *ABC* and *ACD* are right-angled triangles.



DC = 8 cm
Angle *ADC* = 45°
Angle *ABC* = 20°

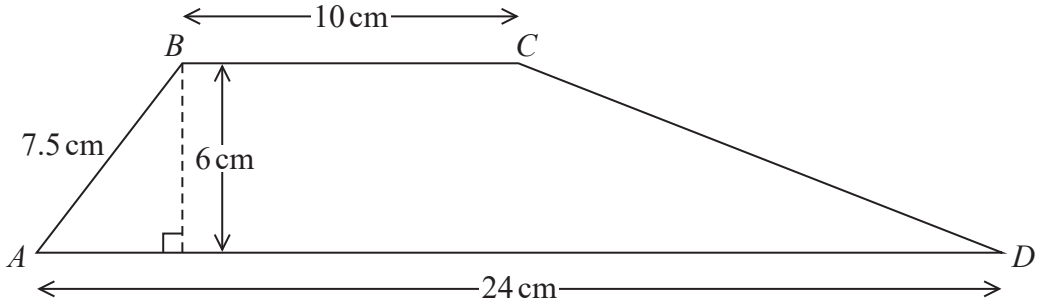
Work out the length of *AB*.
Give your answer correct to 3 significant figures.

..... cm

(Total for Question 10 is 3 marks)

Autumn 2017 Paper 2 Q7

11 *ABCD* is a trapezium.



Work out the size of angle *CDA*.
Give your answer correct to 1 decimal place.

.....°

(Total for Question 11 is 5 marks)