Name: _____

ASM Tuition Academy
SOHCAHTOA (Trigonometry)

Instructions:

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
  - There may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
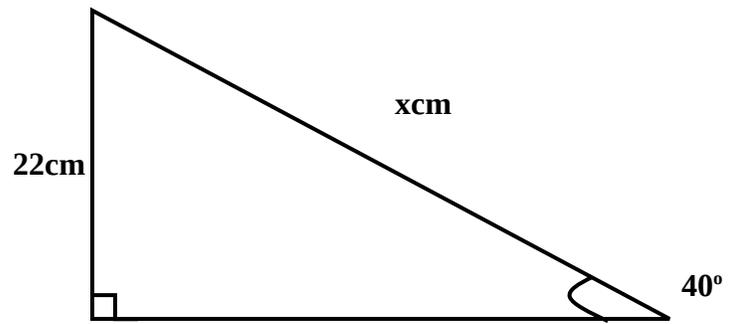- You must **show all you're working out.**

Information:

- The marks for each question are shown in brackets
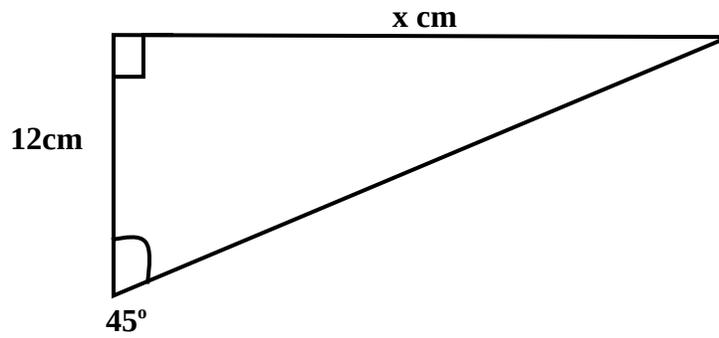 - use this as a guide as to how much time to spend on each question.

Advice:

- Read each question carefully before you start to answer it.
- Keep an eye on time.
- Try to answer every question.
- Check your answers if you have time at the end.
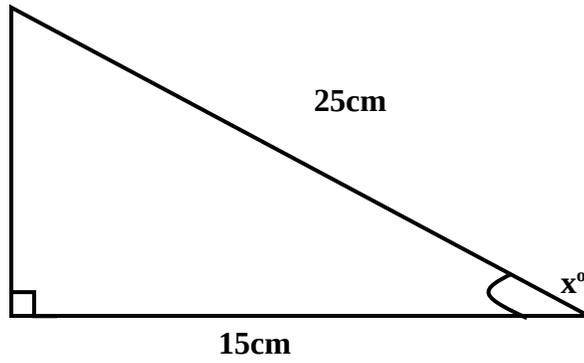
1. **Work out the value of x.**

xcm

22cm

40º

2. **Work out the value of x.**

x cm

12cm

45º

3. **Work out the value of x.**

25cm

x^o

15cm

_____

(Total for question 3 is 2 marks)

4. **Work out the value of x.**

16 cm

14cm

x^o

_____
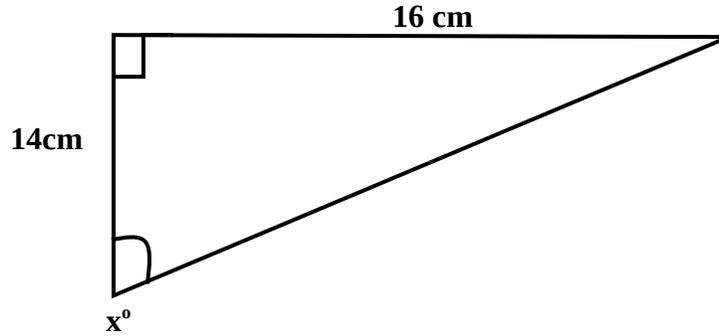
(Total for question 4 is 2 marks)

5. Calculate the length AB

A

B

18cm

C

38º

_____
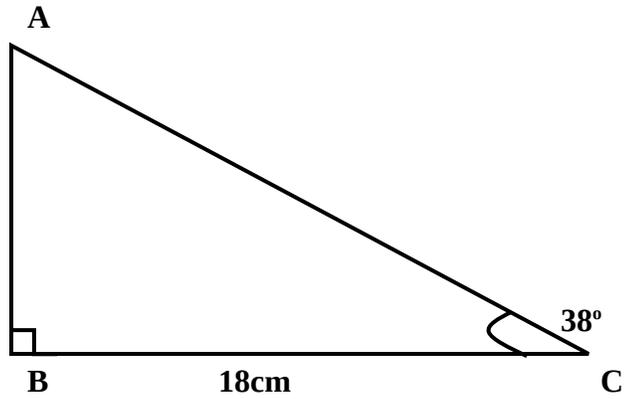
(Total for question 5 is 2 marks)

6. Calculate the length AB

B

C

12cm

A

45º

_____
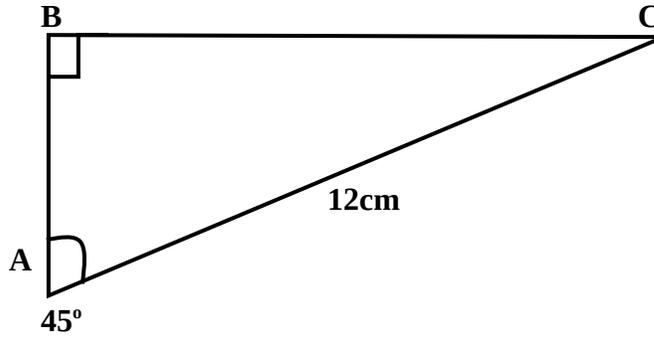
(Total for question 6 is 2 marks)

7. **Calculate the size of angle ACB.**

A

6mm   18mm

B   C

_____
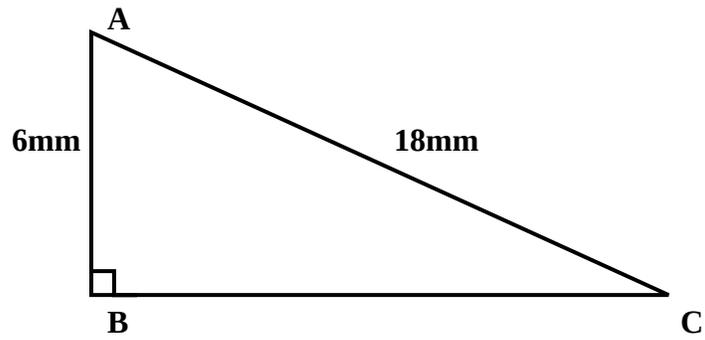
(Total for question 7 is 2 marks)

8. **Calculate the size of angle BAC.**

B   10cm   C
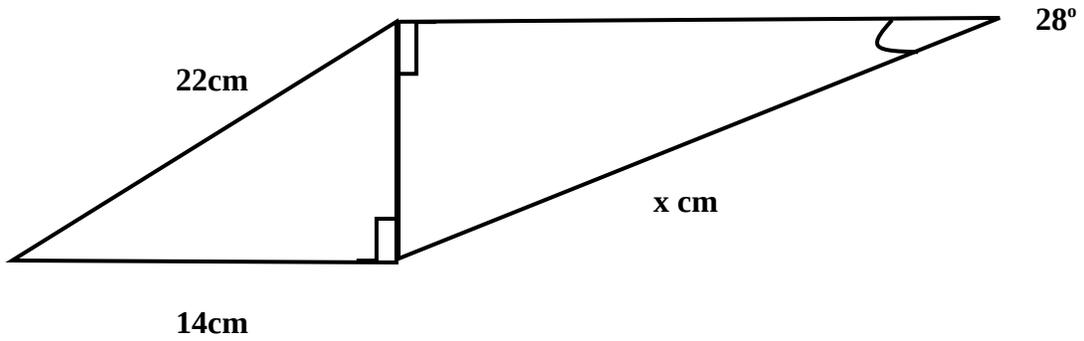
5 cm

A

_____
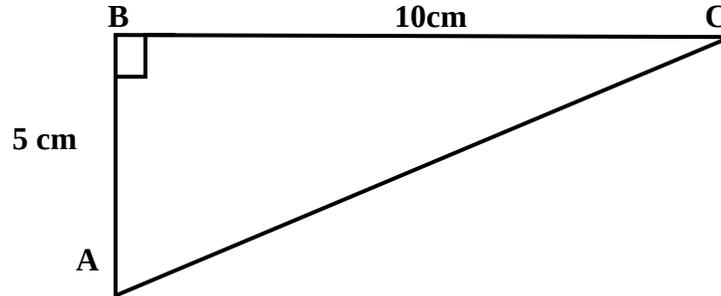
(Total for question 8 is 2 marks)

9. **Work out the size of angle BAD.**
   Give your answer to 1 decimal place.
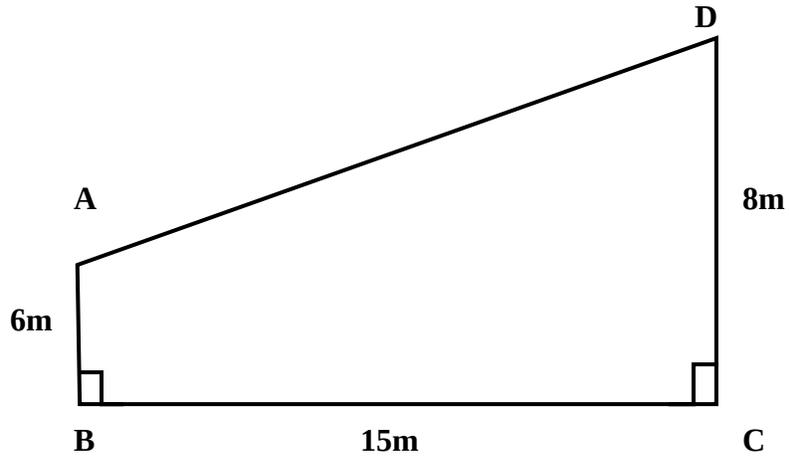
(Total for question 9 is 3 marks)

10. Work out the value of x.
   Give your answer in 1 decimal place.

22cm

14cm

x cm

28°

11. **Work out the size of angle BCD.**
    Give your answer to 1 decimal place.

B

10cm

35º

A   D   C

24 cm