Trigonometry - finding sides and angles

Name:	Class:	Date:

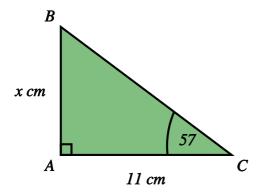| Mark	/ 18	%

1) Find x in the triangle below, giving your answer to 3 significant figures. [1]

2) Find x in the triangle below, giving your answer to 3 significant figures. [1]

3) Find x in the triangle below, giving your answer to 3 significant figures. [1]

B

x cm

57

A

11 cm

C

4) Find x in the triangle below, giving your answer to 3 significant figures. [1]

B

6 cm

x cm

44

A

C

5) Find x in the triangle below, giving your answer to 3 significant figures. [1]
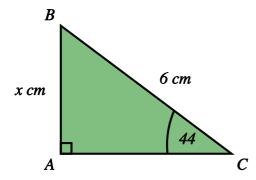
A

9 cm
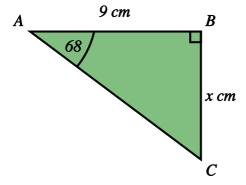
B

68

x cm

C

6) Find x in the triangle below, giving your answer to 3 significant figures.　　　　[1]

7) Find x in the triangle below, giving your answer to 3 significant figures　　　　[1]
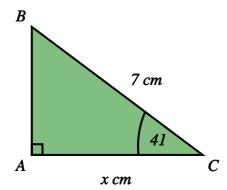

8) Find x in the triangle below, giving your answer to 3 significant figures　　　　[1]

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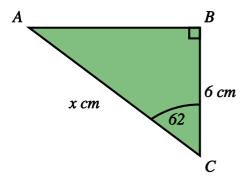

10) Find x in the triangle below, giving your answer to 3 significant figures [1]
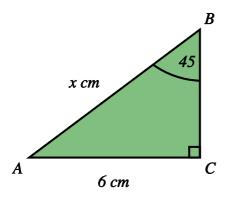

11) Find x in the triangle below, giving your answer to 3 significant figures [1]
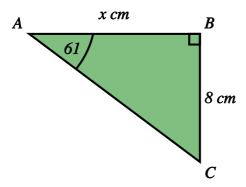
12) Find *x* in the triangle below, giving your answer to 3 significant figures [1]
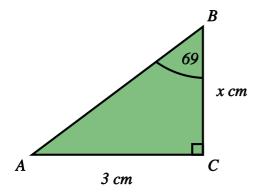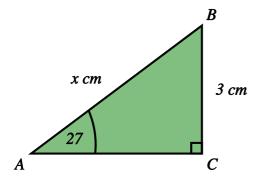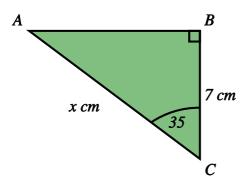
A right-angled triangle ABC with the right angle at B. Side AB is horizontal at the top, side BC is vertical on the right labelled 7 cm. The hypotenuse is AC labelled x cm. The angle at C is 35°.

13) Find angle *x* in the triangle below, giving your answer to 1 decimal place. [1]

A right-angled triangle ABC with the right angle at C. Side AB is the hypotenuse labelled 10 cm. Side AC is horizontal labelled 6 cm. The angle at A is x.

14) Find angle *x* in the triangle below, giving your answer to 1 decimal place. [1]

A right-angled triangle ABC with the right angle at A. Side AB is vertical labelled 6 cm. Side BC is labelled 8 cm. The angle at C is x.
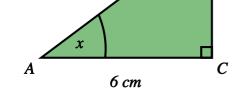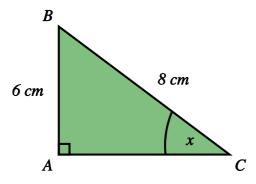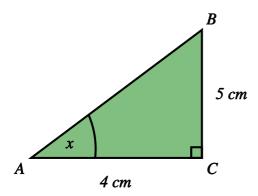
15) Find angle x in the triangle below, giving your answer to 1 decimal place. [1]
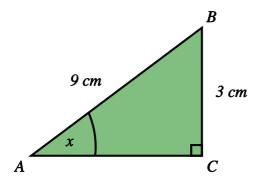

16) Find angle x in the triangle below, giving your answer to 1 decimal place. [1]

17) Find angle x in the triangle below, giving your answer to 1 decimal place. [1]

18) Find angle x in the triangle below, giving your answer to 1 decimal place. [1]
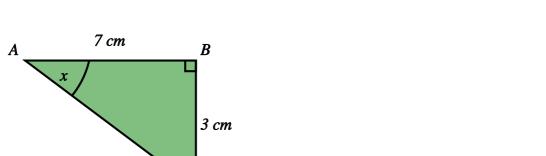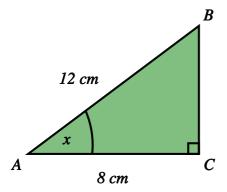
Solutions for the assessment Trigonometry - finding sides and angles

1) x = 4.69 cm

2) x = 4.41 cm

3) x = 16.9 cm

4) x = 4.17 cm

5) x = 22.3 cm

6) x = 5.28 cm

7) x = 12.8 cm

8) x = 8.49 cm

9) x = 4.43 cm

10) x = 1.15 cm

11) x = 6.61 cm

12) x = 8.55 cm

13) x = 53.1°

14) x = 48.6°

15) x = 51.3°

16) x = 19.5°

17) x = 23.2°

18) x = 48.2°