	Skills Revision: Pythagoras & Trigonometry

Name: **Date:**

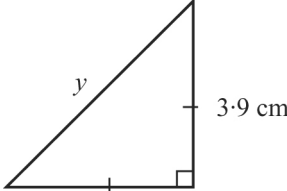| 1	Label the hypotenuse and write a Pythagorean equation that connects the sides of these triangles:
	a
	b

2	Find the length of the hypotenuse in each of the following triangle:
	a

3	Find the value of the unknown sides expressed correct to two decimal places:
	b
	c

4	Find x, the missing number, in the following Pythagorean triads:
	a 18, 24, x
	b 35, x, 613
	c x, 120, 122

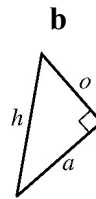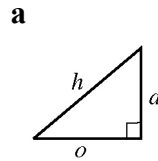|	**Skills Revision: Pythagoras & Trigonometry**

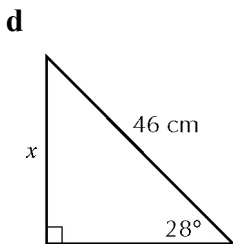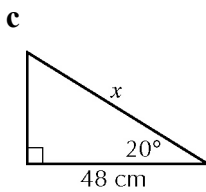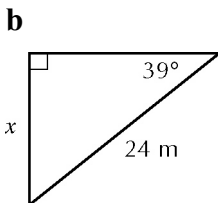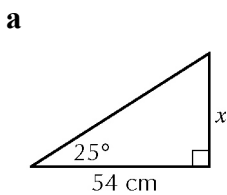| 5	Find the length of the sides marked *x* and *y* expressed correct to two decimal places:

24 m

26 m

12 m

y

x
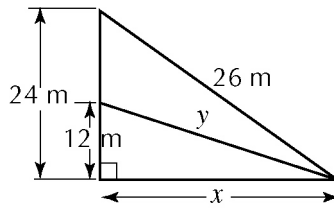
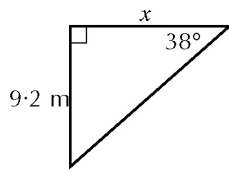| 6	Label the sides of each triangle using the letters H (hypotenuse), O (opposite) and A (adjacent) in the following triangles:	Place the angle **θ** in these triangles to match the labels:
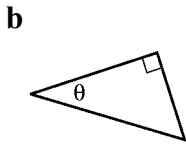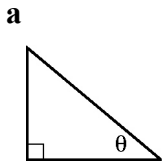
a

θ

b

θ

a

h

a

o

b

o

h

a

7	Find the length of the sides marked *x* in these triangles:

a

x

25°

54 cm

b

39°

x

24 m

c

x

20°

48 cm

d

46 cm

x

28°

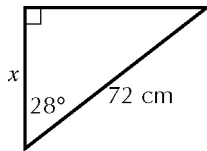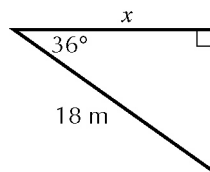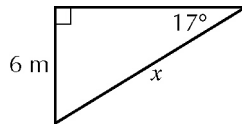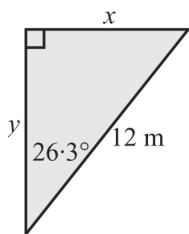|	**Skills Revision: Pythagoras & Trigonometry**
8	Find the length of the sides marked *x* in these triangles: **a** *x* 38° 9·2 m **b** *x* 28° 72 cm **c** *x* 36° 18 m **d** 17° 6 m *x*
9	Find the length of the sides marked *x* and *y* expressed correct to two decimal places. *x* *y* 26·3° 12 m
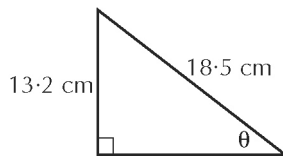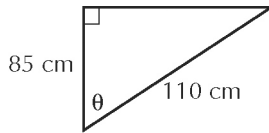
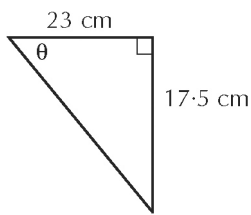| 10	Find the unknown angles correct to two decimal places.
	a
	13·2 cm 18·5 cm θ
	b
	85 cm θ 110 cm
	c
	23 cm θ 17·5 cm
11	Bert and Liz go on a bushwalk. They start at the car park and walk 1.6 km south, 3.2 km east then 2.8 km north to a campsite and then return in a straight line to the carpark.
	a Draw a fully labelled diagram showing the distances walked.
	b Calculate how far they walked in total.
	c What is the angle from the campsite to the carpark