

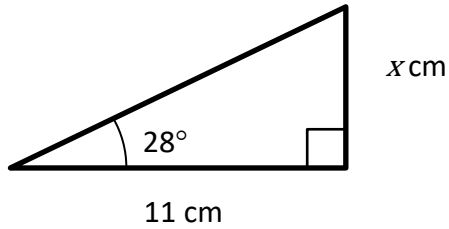
TRIGONOMETRY

Name: _____

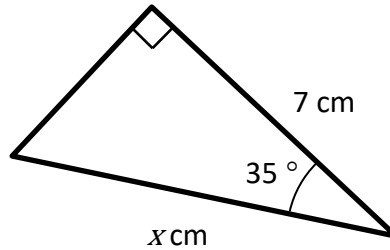
BAM Indicator: Apply trigonometry in two dimensions

1. a) Find the missing lengths marked x in these diagrams:

i)

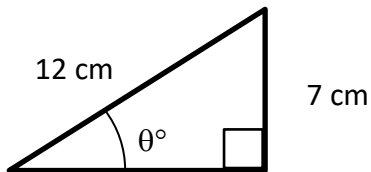


ii)

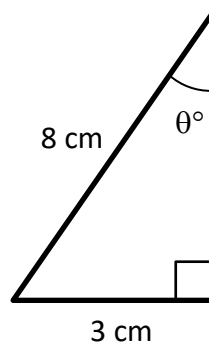


b) Find the missing angles marked θ in these diagrams:

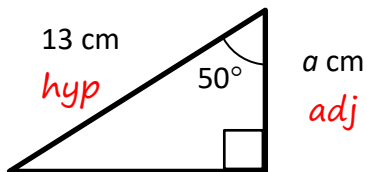
i)



ii)



2. There are two mistakes made in the working below.
Describe the mistakes that have been made. Find the correct solution.



$$a = 13 \div \sin 50 = 16.97029\dots$$

$$a = 16.97\text{ cm (2 d.p.)}$$

F

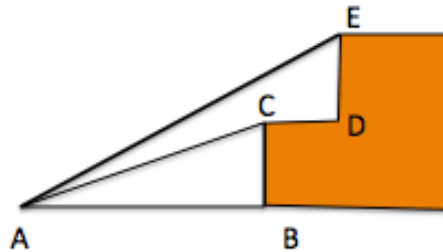
M

3. A ladder, 6 metres long, rests against a wall. The foot of the ladder is 2.5 metres from the base of the wall. What angle does the ladder make against the ground?

A

4. The diagram shows the cross-section of a building. CD is a ledge half way up. Amy is standing at point A looking at the building. She measures $AB = 100$ metres, $\angle CAB = 31^\circ$ and $\angle EAB = 42^\circ$. Calculate the length of CD .

P



$CD =$ _____ m

5. Jason says:

I only need to know two pieces of information about a triangle and I can find any missing side or angle.

R

Do you agree or disagree? Explain why.

Overall, I think my success level is:

Low High

F = Fluency R = Reasoning P = Problem-solving A = Application M = Misconception

Q	TRIGONOMETRY	😊	☹️
	I can correctly label a triangle so as to select the appropriate trigonometric ratio		
	I can find missing sides of right-angled triangles using trigonometry		
	I can find missing angles of right-angled triangles using trigonometry		
	I can apply trigonometry to problems involving multiple triangles		
Improvements I could make:			
Mathematical presentation	Method	Accuracy	Units