## Exact Trig Values

## REVISE THIS TOPIC

1	Write down the value of sin 30°		[1 mark]
		1/2	
	Answer		
2	Write down the value of cos 0°		[1 mark]
	Anguar	1	
	Answer	•	
3	Write down the value of tan 45°		[1 mark]
		1	
	Answer		
4	Write down the value of sin 60°		[1 mark]
		.6	
		<u>\( \frac{1}{3} \)</u>	
	Answer	L	
5	Write down the value of cos 30°		[1 mark]
		<u> </u>	
	Answer	2	
6	Write down the value of tan 0°		[1 mark]
		$\cap$	
	Answer		
7	Write down the value of sin 0°		[1 mark]
		$\wedge$	_
st	Answer	U	

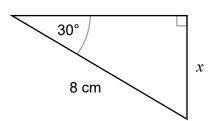






8	Write down the value of cos 60°		[1 mark]
9	Answer Write down the value of tan 60°	12	[1 mark]
10	Answer Write down the value of sin 90°	<b>√</b> 3	[1 mark]
11	Answer Write down the value of cos 90°	1	 [1 mark]
12	Answer Write down the value of tan 30°	<u> </u>	[1 mark]
13	Answer Write down the value of sin 45°	3	[1 mark]
14	Answer Write down the value of cos 45°	√2 √2	[1 mark]
1st	Answer	7	

15 Use trigonometry to work out the value of x.



Not drawn accurately

[2 marks]

$$\sin(30) = \frac{x}{8}$$

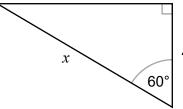
$$\frac{1}{2} = \frac{x}{8}$$

$$x = 4$$

Answer\_\_\_\_

\_ cm

16 Use trigonometry to work out the value of x.



40 cm

Not drawn accurately

[2 marks]

$$(0)(60) = \frac{40}{x}$$

$$\frac{1}{2} = \frac{40}{x}$$

Answer

80

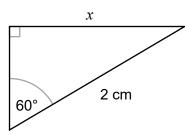
\_\_ cm

11

Turn over ▶



17 Use trigonometry to work out the value of x.



Not drawn accurately

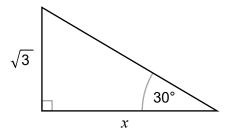
[2 marks]

$$Sin(60) = \frac{x}{2}$$

$$\frac{\sqrt{3}}{2} = \frac{x}{2}$$

Answer cm

18 Use trigonometry to work out the value of x.



Not drawn accurately

[2 marks]

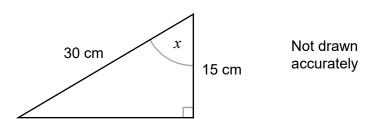
26

$$\frac{\sqrt{3}}{3} = \frac{\sqrt{3}}{3}$$

Answer\_\_\_\_cm



19 Use trigonometry to work out the size of angle x.



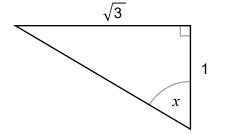
[2 marks]

$$\cos(\pi) = \frac{15}{30}$$

$$(05(x) = \frac{1}{2}$$

Answer 6

Use trigonometry to work out the size of angle x.



Not drawn accurately

[2 marks]

$$\tan(x) = \sqrt{3}$$

$$\tan(x) = \sqrt{3}$$

tan (60) = 13

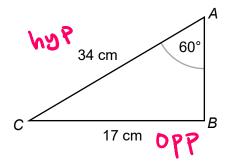
Answer 60

8



Turn over ►

21 Here is triangle ABC.



Not drawn accurately

Is angle ABC a right angle?

Tick one box.

Yes

No V

Not possible to tell

Show working to support your answer.

[2 marks]

but 
$$\sin(60) = \sqrt{3}$$
 and  $17 = \frac{1}{2}$