

Maths Workout - Geometry & Measures

Topic 23 - Trigonometry 1				
Target 1	Target 2	Target 3	Target 4	Target 5
<i>Engage with trigonometric nomenclature and SOHCAHTOA</i>	<i>Calculate an angle using sin, cos and tan</i>	<i>Calculate a side using sin, cos and tan; required side is the numerator</i>	<i>Calculate a side using sin, cos and tan; required side is the denominator</i>	<i>Know the formula triangles from SOHCAHTOA Calculate any side and any angle</i>
1. Know the names 'Hypotenuse', 'Opposite' and 'Adjacent'	1. Demo: Calculate an angle using sin	1. Demo: Calculate a side using sin	1. Demo: Calculate a side using sin	1. Demo: Extract 3 formula triangles from SOHCAHTOA
2. Speed response: Identify the hypotenuse in a right angle triangle	2. Calculate an angle using sin; horizontal/vertical orientation	2. Calculate a side using sin; horizontal/vertical orientation	2. Calculate a side using sin; horizontal/vertical orientation	2. Select which ratio to use to calculate any side length
3. Speed response: Identify the opposite in a right angle triangle	3. Calculate an angle using sin	3. Calculate a side using sin	3. Calculate a side using sin	3. Calculate a side using sin, cos or tan: horizontal/vertical orientation
4. Speed response: Identify the adjacent in a right angle triangle	4. Demo: Calculate an angle using cos	4. Demo: Calculate a side using cos	4. Demo: Calculate a side using cos	4. Calculate a side using sin, cos or tan
5. Know SOHCAHTOA and use a mnemonic, such as 'Silly Old Hens'	5. Calculate an angle using cos; horizontal/vertical orientation	5. Calculate a side using cos; horizontal/vertical orientation	5. Calculate a side using cos; horizontal/vertical orientation	5. Calculate an angle using sin, cos or tan: horizontal/vertical orientation
6. Know and write out the 3 trigonometric ratios	6. Calculate an angle using cos	6. Calculate a side using cos	6. Calculate a side using cos	6. Calculate an angle using sin, cos or tan
	7. Demo: Calculate an angle using tan	7. Demo: Calculate a side using tan	7. Demo: Calculate a side using tan	
	8. Calculate an angle using tan; horizontal/vertical orientation	8. Calculate a side using tan; horizontal/vertical orientation	8. Calculate a side using tan; horizontal/vertical orientation	
	9. Calculate an angle using tan	9. Calculate a side using tan	9. Calculate a side using tan	
	10. Select which ratio to use to calculate an angle	10. Select which ratio to use to calculate a side length	10. Select which ratio to use to calculate a side length in the denominator	
	11. Calculate an angle using sin, cos or tan	11. Calculate an angle using sin, cos or tan	11. Calculate an angle using sin, cos or tan	
	12. Calculate an angle using sin, cos or tan	12. Calculate an angle using sin, cos or tan	12. Calculate an angle using sin, cos or tan	