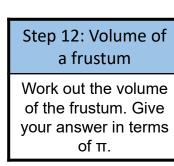
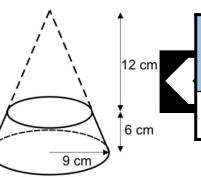
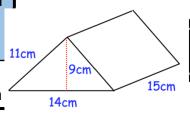
Year 11 Mathematics Learning Journey: Unit 9 - Shape





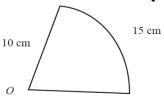
Step 10: Volume and surface area of prisms

Calculate the volume of the triangular prism



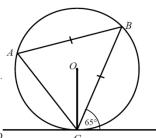
Step 8: Arc length and sector area

Calculate the area of the sector.



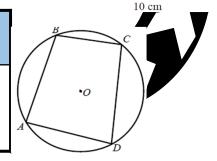
Step 5: Circle theorems

A, B and C are points on the circumference of a circle, centre O. DCE is a tangent to ¹⁹ the circle. AB = BC. Find the size of angle AOC.



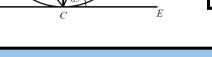
Step 6: Circle theorem proof

A, B, C and D are points on the circumference of a circle, centre O. Prove that angle ABC and ADC add to 1800



Step 4: Bearings with angle rules

Oxford is on a bearing of 3300 from Cambridge. Find the bearing of Cambridge from Oxford.



Step 3: Scales and bearings

Put an x in the middle of your page to represent an island. Letting 1cm = 1km, mark the position of a boat 3km from the island on a bearing of 1110.

Step 2: Angles on parallel lines

What types of angles on parallel lines can you recall?

Step 1: Angles in polygons

Work out the size of an interior angle in a regular 10-sided polygon.









