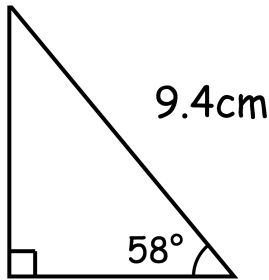




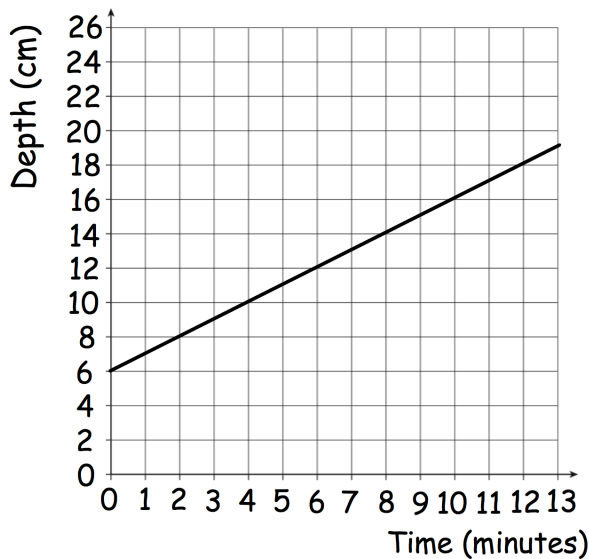
The number of visitors that a museum had last year was  $9.2 \times 10^5$ .

This year, the museum has had  $1.3 \times 10^6$  visitors.

Calculate the percentage increase.



Calculate the area of the right angled triangle.



Water is poured into a swimming pool for 13 minutes  
 The graph shows the depth of the water in the swimming pool.  
 What is the rate of change of the depth of the water?  
 Give your answer in cm/min.

Another swimming pool contains water that is 24cm deep.  
 It is emptied at a rate of 3cm/min.  
 Show this on the graph.

Shapes A, B and C are similar.  
 The height of shape A is 8cm  
 The height of shape C is 4cm  
 The ratio of the surface area of shape B to the surface area of shape C is 25:9

Work out the ratio of the volume of shape A to shape B.