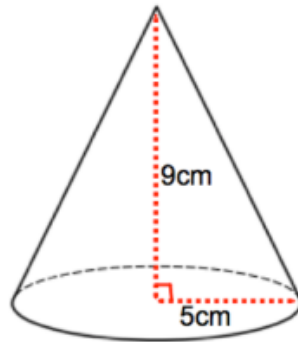


MA = 20 days to go!

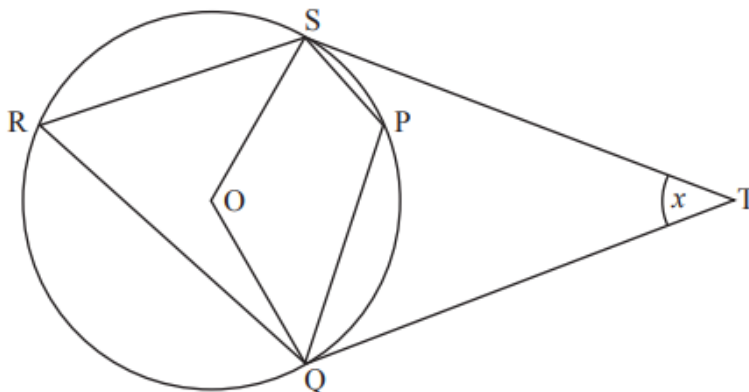
1. A cone has base radius 5cm and perpendicular height 9cm.



Work out the volume of the cone.

.....cm³
(3)

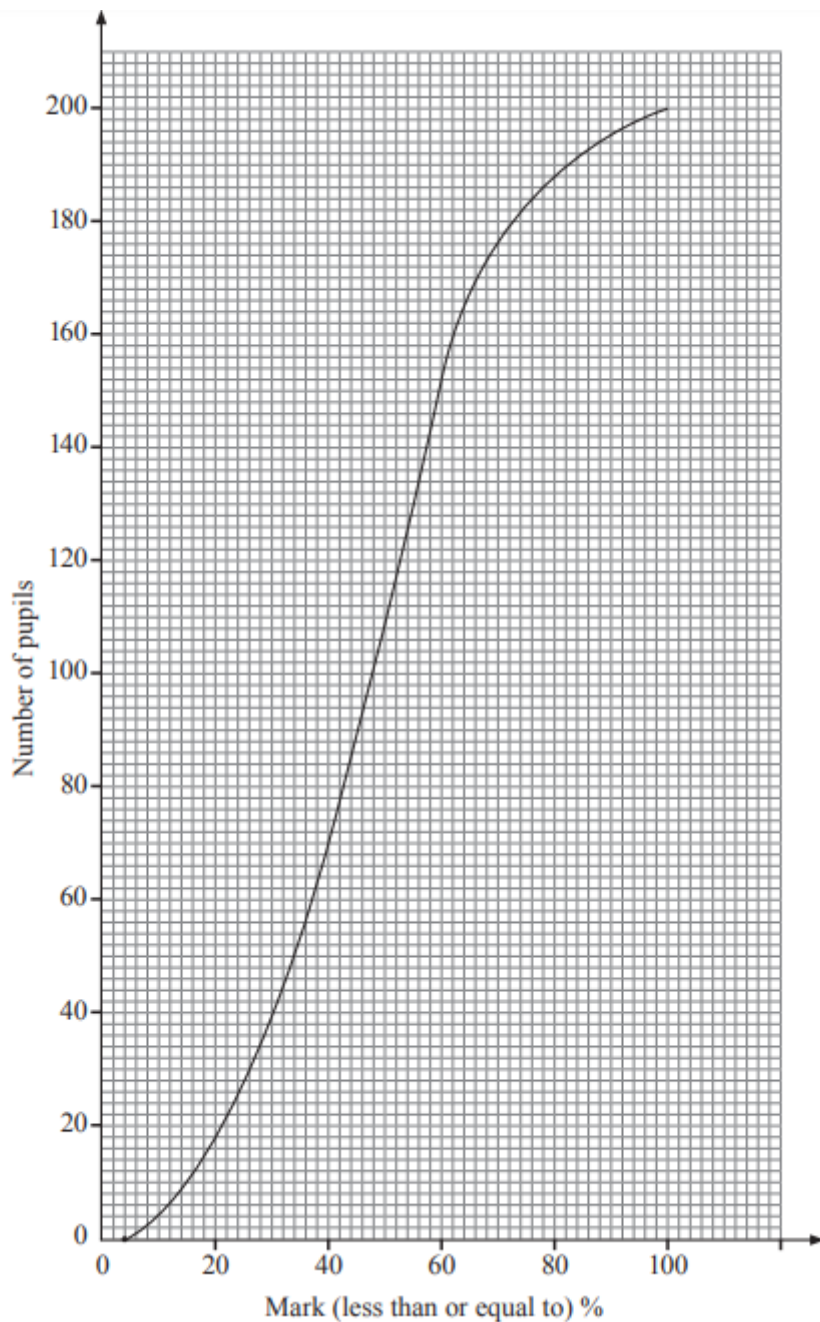
- 18 In the diagram, O is the centre of the circle.
P, Q, R and S are points on the circumference of the circle.
ST and QT are tangents to the circle.
Angle STQ = x .



Work out the size of angle SPQ in terms of x .

Explain each stage of your working clearly.

22 Two hundred pupils sat an English test. The cumulative frequency curve for the percentage marks gained is shown.



(a) Use the graph to complete table (i) and hence table (ii) below:

(i)

Percentage Mark	Cumulative Frequency
≤ 20	18
≤ 40	70
≤ 60	
≤ 80	
≤ 100	

[1]

(ii)

Percentage Mark	Frequency
$0 < p \leq 20$	18
$20 < p \leq 40$	52
$40 < p \leq 60$	
$60 < p \leq 80$	
$80 < p \leq 100$	

[2]

(b) Use the graph to estimate the median mark.

Answer _____ [1]