

28th September



Corbettmaths

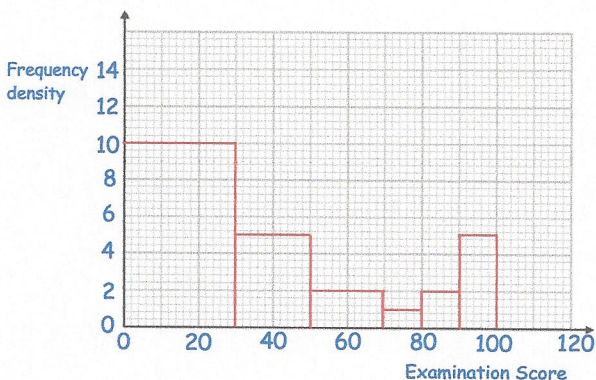
Evaluate

$$1000^{\frac{1}{3}}$$

10

Mr Smith has drawn a histogram to represent his classes' examination scores.

Can you explain what Mr Smith has done wrong?



Examination score	Frequency
$0 < s \leq 30$	3
$30 < s \leq 50$	4
$50 < s \leq 70$	10
$70 < s \leq 80$	10
$80 < s \leq 90$	5
$90 < s \leq 100$	2

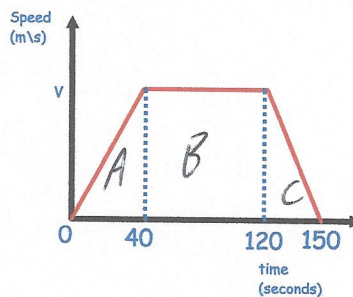
FD  
0.1  
0.2

Frequency density =  $\frac{\text{Frequency}}{\text{class width}}$   
Mr Smith used  $FD = \frac{CW}{F} \times$

Shown is a speed-time graph.  
The total distance travelled is 4.6km

Find V.

4600.  
 $A = 20v$     $B = 80v$     $C = 15v$   
 $115v = 4600$   
 $v = 40 \text{ m/s}$



Solve

$$\frac{9}{x+2} = x+2$$

$$9 = (x+2)(x+2)$$

$$9 = x^2 + 4x + 4$$

$$0 = x^2 + 4x - 5$$

$$(x+5)(x-1) = 0$$

$$x = -5 \text{ or } x = 1$$