

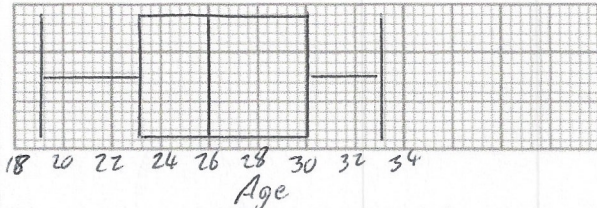
6th September



Corbettmaths

The ages of 15 rugby players are:

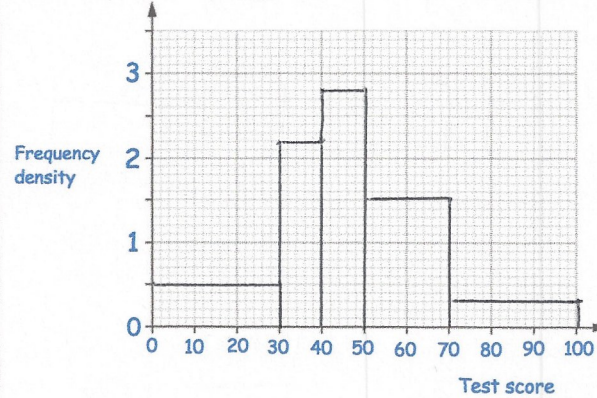
~~23~~ ~~26~~ 30 ~~29~~ ~~30~~  
~~29~~ 26 ~~25~~ ~~22~~ ~~23~~  
 31/ ~~33~~ ~~19~~ ~~27~~ 26



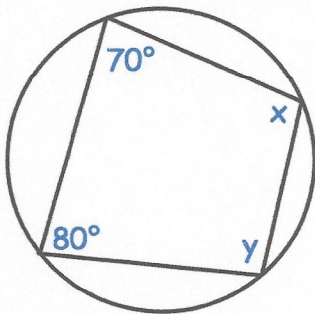
Draw a box plot to show this information

19 22 23 (23) 25 26 26 (26) 27 29 29 (30) 30  
 31 33

Test score, $x$	Frequency	$fd$
$0 < x \leq 30$	15	0.5
$30 < x \leq 40$	22	2.2
$40 < x \leq 50$	28	2.8
$50 < x \leq 70$	30	1.5
$70 < x \leq 100$	9	0.3



Draw a histogram for this data.



Find  $x$  and  $y$

$$x = 100^\circ$$

$$y = 110^\circ$$

$w$  is inversely proportional to  $c$  squared.

$$w \propto \frac{1}{c^2}$$

When  $w = 400$ ,  $c = 2$ .

$$w = \frac{k}{c^2}$$

Find  $w$  when  $c = 4$ .

$$400 = \frac{k}{4}$$

$$k = 1600$$

$$w = \frac{1600}{c^2}$$

$$w = \frac{1600}{16}$$

$$w = 100$$