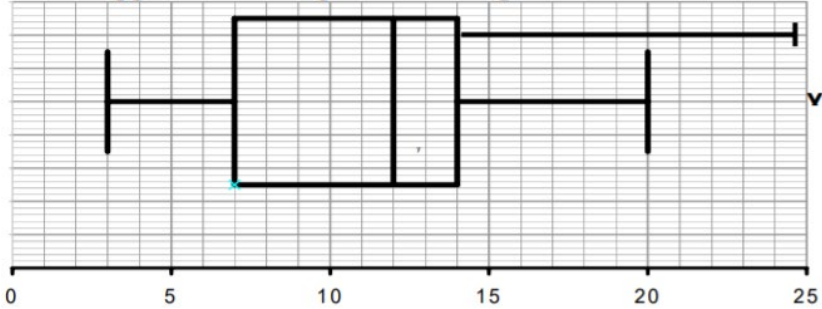


Solutions

1a.

Outliers: $14 + 1.5 \times (14 - 7) = 24.5$	M1
Outliers: $7 - 1.5 \times (14 - 7) = -3.5$	M1
Therefore, outlier is 25	M1
	
Shape	M1
Correct positioning of all values.	M1

1b.

Not true	M1
As the lower quartile is 7000 and therefore 75% above 7000 not 10000.	M1
(alternative explanation: 10 is inside the box or any other sensible comment)	

Solutions

Width	1	1	4	2	3	5	3	12	M1 M1
F.D	6	7	2	6	5.5	2	1.5	0.5	
Total area is $(1 \times 6) + (1 \times 7) + (4 \times 2) + \dots = 70$									M1
$(90.5 - 78.5) \times \frac{1}{2} \times \frac{140}{70}$									M1
Number of runners is 12									M1



Solutions

1a.

Time is a continuous variable	M1
(or ,data is in a grouped frequency table.)	(M1)

1b.

Area is proportional to frequency	M1
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1c.

$3.6 \times 2 = x \times 9$	M1
$x = 0.8$	M1
Therefore, 1 child is represented by 0.8	M1

1d.

Total = $\frac{24}{0.8}$	M1
= 30	M1

