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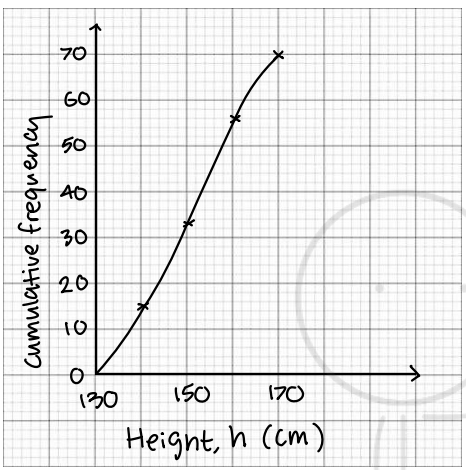
3.3 Cumulative Frequency

1.

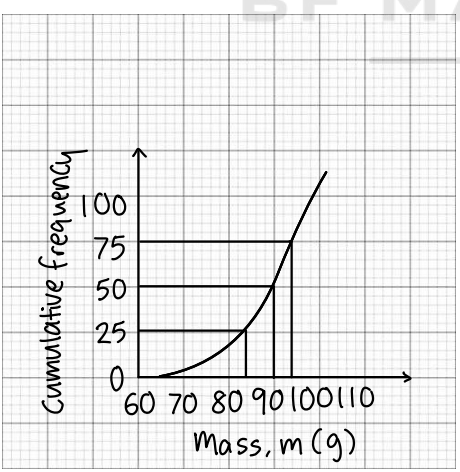
a)

Height (cm)	Cumulative Frequency
$130 \leq h < 140$	15
$140 \leq h < 150$	33
$150 \leq h < 160$	56
$160 \leq h < 170$	70

b)



2.



a) median = 90g

b) IQR ≈ 94 − 84
≈ 10g

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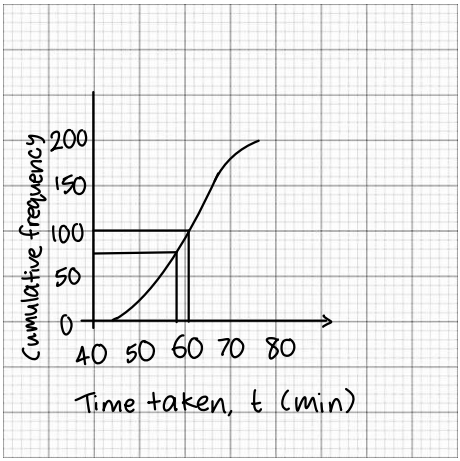
3.

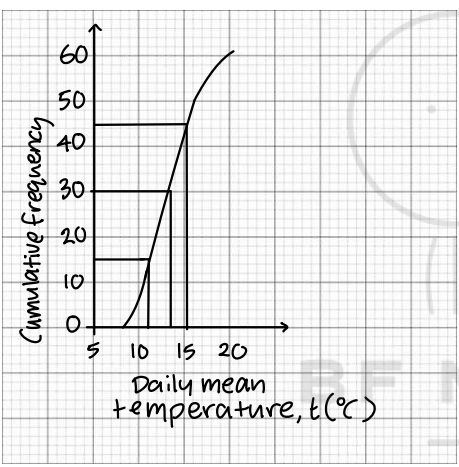


a) Total runners = 200

b) Median = 60.5 minutes

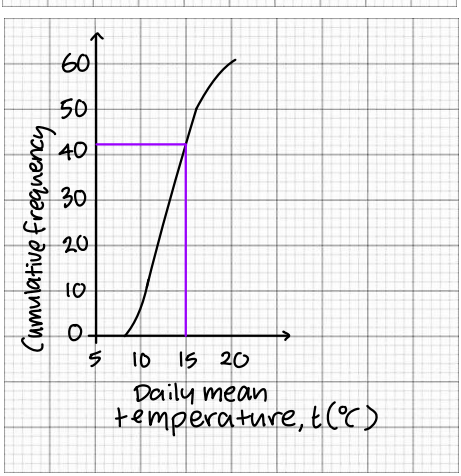
c) Runners who qualified for the regional final ≈ 75

4.



a) Months of May and June
May : 31 days
June: 30 days
So 31 + 30 = 61 days represented in cumulative frequency diagram

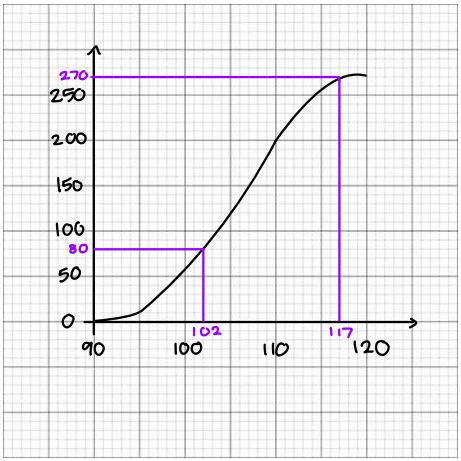
b) Median = 13.5°C
IQR ≈ 15.1 - 11
≈ 4.1°C



c) Days greater than 15°C = 61 - 42
= 19 days

d) Phyllis might be wrong because she is assuming that the lowest recorded temperature is 8°C and the highest recorded temperature is 20°C but this might not be the case if the data is grouped. The lowest temperature could be higher than 8°C and the highest could be lower than 20°C

5.



$270 - 80 = 190$ potatoes

Percentage of crop that can be sold $= \frac{190}{280} \times 100$

$= 68\%$ approximately

* Answer may vary

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