

19.5

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Question : 2

a) Note = 164 min and 166 min

b) $i = \frac{50}{100} (28) = 14$
 $n = 28$
 $p = 50$

$i = 14$

c) median = $\frac{164 + 166}{2} = 165$ min

d) $70 = \frac{x}{28} (100)$

$x = 19.6$ 70th percentile = 167 min

Shed time	Frequency
150	1
152	1
154	1
155	1
156	1
158	1
161	2
162	2
163	2
164	3
165	1
166	3
167	1
168	1
169	1
170	2
171	2
172	1
174	1

70 percentile

15

b) $i = \frac{35}{100} (28) = 10$

$i = 10$

$Q_1 = \frac{161 + 161}{2} = 161$ min

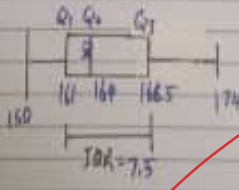
$i = \frac{75}{100} (28) = 21$

$i = 21$

$Q_3 = \frac{168 + 169}{2} = 168.5$ min

mean = $\frac{150 + 152 + 154 + 155 + 156 + 158 + 161(2) + 162(2) + 163(2) + 164(3) + 165 + 166(3) + 167 + 168 + 169 + 170(2) + 171(2) + 172(1) + 174}{28}$

$\bar{x} = \frac{4584}{28} = 163.71$



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Question : 1

No	Data Type	Level of measurement
1	qualitative	nominal
2	qualitative	nominal
3	qualitative	ordinal
4	quantitative	interval
5	quantitative	Ratio

4.5

