Preoblem: (Example-1) Draw a stem leaf diagram for the following Data: 26 45 32 27 29 30 40 36 37 soln: Annange them in ascending onder (reast to greatest) 26 27 29 30 32 36 37 40 45 $\frac{160}{6}$ Stem 3 4

36, 37,40,45

Problem: (Example > 2)

i) 15., 16, 21, [25] 27, 30, 36

ii) Least ralve = 15

greatest value = 36

 $Medi'an = \frac{7n+1}{2} + h + vem$

 $= \frac{7+1}{2}$ +h

 $= \frac{8}{3} + h = 4 + h + term = 25$

Mode = No mode.

Range = 36-15 = 21

iii) 21 - 27

stem 2 represents the class interval

21627.

This interval includes most data:

Problem: (Example -3)

301n: a) 66, 70, 75, 77, 78

90, 92,99,100

c) most of the data issue at central value. 50, it's symmetrically distributed.

$$n = 15$$

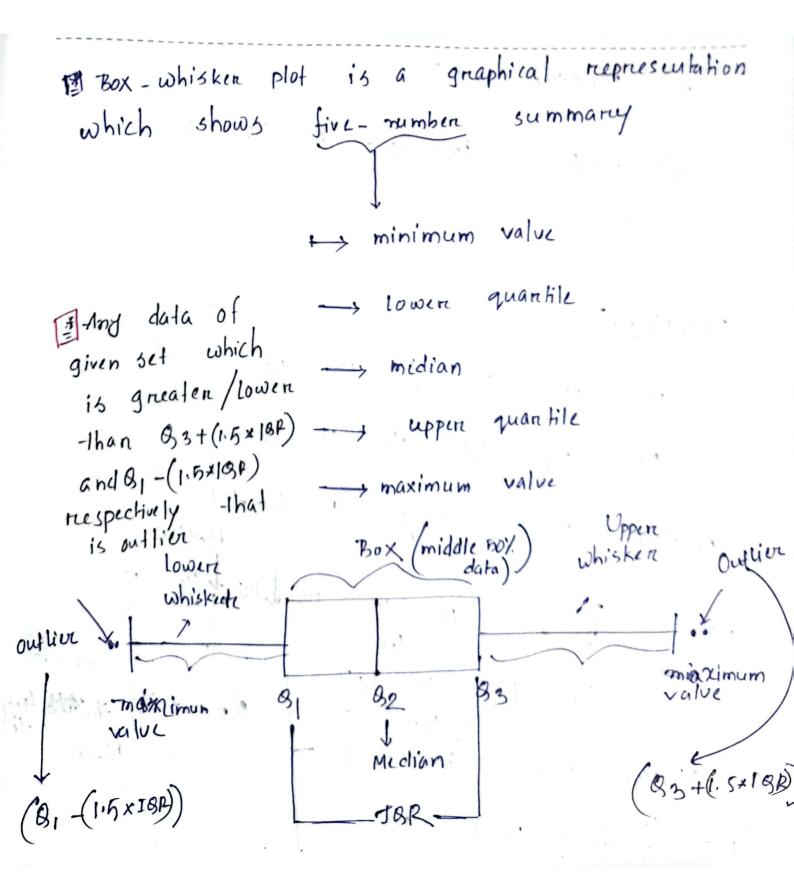
For
$$82 = \frac{\eta}{4}th = \frac{15}{4}th = 3.75 th = 4th term$$

Children $83 = \frac{3\eta}{2}tcd = 11.25th = 12 th' term$

Two
$$\begin{cases} 81 = 3nd & \text{denm} \\ 82 = 6 + h & \text{term} \\ 83 = 6 + h & \text{term} \\ 83 = 6 + h & \text{term} \end{cases}$$

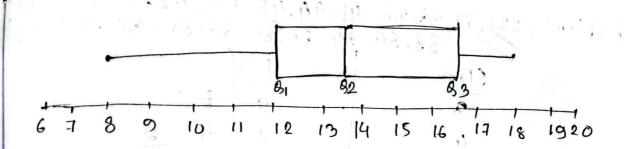
children
$$82 = 32$$

$$18P = 83 - 81 = 37 - 21$$



$$82 = Median = 13.5$$
 $(n = 12)$

$$8e = Median = 13.5 (n = 12)$$

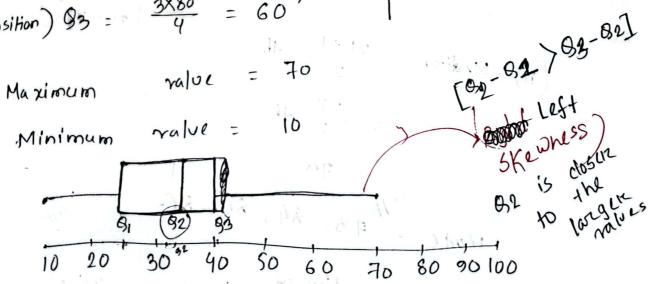


Problem: (21)
$$n = 80$$

(Bishion) $g_1 = \frac{\pi}{4} = \frac{80}{4} = 20$

(Position) $g_2 = \frac{80}{2} = 40$

(Position) $g_3 = \frac{3\times80}{4} = 60$



nple: (3) For sydney, (More consistent).

$$81 = 11$$
; $82 = 13$; $83 = 14$; $18R = 83 - 81$
 $14 - 11 = 3$

Range = $15 - 9$

Melbourene,

 $81 = 10$; $82 = 14$; $83 = 16$; $83 = 16$
 $81 = 10$; $82 = 14$; $83 = 16$

Range = 6

Range = $19 - 7$

Problem: (22)(i) 34,35, 41,44,45,50,52,62,73,73 83,84,84,85,85,86,86,87,89,91 Leaf 5 2 n = 21 ii) Median = 73, 84, 85, 86 Mode half 81 85.5 By - B1 TBR skewness. ralue are at Maximum

tails.

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/	Name of	Exam	: Class	Test /	Mid-term	/ Fina

Problem: (24) (i) For Group A.

81 = 30

83 = 55

GROUP B >

TBR = B3 - B1 = 59 -

group 0-1

group A. so, spreading of

higher. 30, Grnoup

is Largen

B has less consistency

Comment:

FOR GIROUP A, B2-B1>B3-B2

That is negative skewed distrubotion.

> > Median is fan away from uppor quantile.

For Group B, B2-B1 L

Than B3-82 positive group B

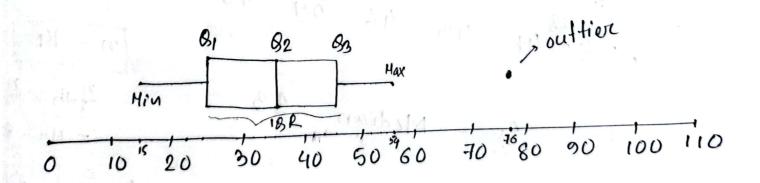
(26) Herre right whisker is Longere whisker 60, positive skewness exists. Problem: (26) Problem: 26) Hene, B3-82 < B2-B1 30, it has negative skewness. Mean Media man Mode . Mean Median Mode > Median > Mode. Here, Median (Mean (Mode. Kuntosis Analysis: JBR = 83 - 81 Ginls - 69 - 66 $\frac{R}{2} = \frac{UL - LL}{2} = \frac{70 - 64}{2} = 3$ A5, TBR = P/2so, it is mesokuretic. .IBP = 83 - 81 = 70 - 65 = 5Boys $=\frac{UL-LL}{2}=\frac{73-61}{0}$

1,01 Irils

Communit; Holl, JBR. . < P/2 For both data set, 30, it is Leptokuntic. 82-81 < 83-82 so, both have tre skewness. so, Mean > Median summess analysis Lest whiskers is longer than R.W. megative skewhess. so, it has < median < mode. ime as girls. FOR BOYS, Problem: [Outlier Problem] n = 1432 = Median = 33 かっか カナナカ 3010: = 711,814 $\mathcal{O}_1 = \frac{7+1}{2} + h = 4+h = 22$ 18P = 83 - 81 - 43 -22 $83 = \frac{7+1}{2} + h = 41h = 43$ - 21 Max = 76 ; Min = 15

 $= 81 - (1.5 \times 18P)$ $= 22 - (1.5 \times 21)$ = -9.5

30, 76 is outlier.



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