Central Tendencies Assignment

(1) a = [9, 7, 11, 13, 2, 4, 5, 5]

mean (a) = $\frac{9+7+11+13+2+4+5+5}{8} = \frac{56}{8} = 7.$

b

(b) = [2.2, 10.2, 14.7, 5.9, 4.9, 11.1, 10.5)

$= \frac{59.5}{7} = 8.5$

(c) C = [11/4, 21/2, 51/2, 31/4, 21/2]

$= \frac{57}{5} = 11.4$

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(4) $\frac{8+11+6+14+x+13}{6} = 66.$

$52+x = 396 \quad x = 396-52$

$\boxed{x = 344}$

13
20
19
52

66
6
396
52
344

(5) $\frac{6+8+(x+2)+10+(2x-1)+2}{6} = 9.$

$3x+27 = 54$

$3x = 27 \quad \boxed{x=9}$

(6) (a) age = [12 10 15 14 8]

No = 20 mean = $\frac{59}{20} = \boxed{2.95}$

(b) Marks = [25 30 15 20 24]

No = 40 mean = $\frac{114}{40} = \boxed{2.85}$

(7) (a) = 12, 8, 4, 8, 1, 8, 9, 11, 9, 10, 12, 8

8 = 4
9 = 2
12 = 2
1 - 1
10 - 1
11 - 1

~~inc~~

Mode = 8

(b) 15, 22, 17, 19, 22, 17, 29, 24, 17, 15

Mode = 17

(c) 0, 3, 2, 1, 3, 5, 4, 3, 4, 2, 1, 2, 0

Mode = 3

(d) 1, 7, 2, 4, 5, 9, 8, 3.. 1 2 3 4 5 7 8 9.

Mode = No Mode

(8)

Median = 25.

17, x, 24, x+7, 35, 36, 46. x = ?

~~17, 24, 35, 36, 46~~

x+7 = 25

x = 25 - 7

x = 18

(9) Suppose.

we can change last four.

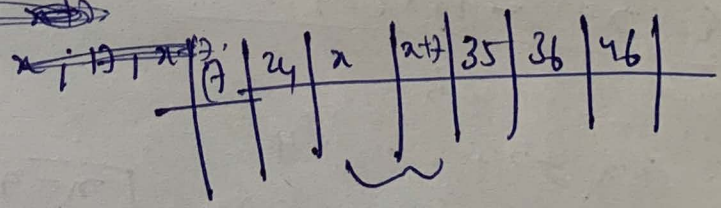
only first four.

∴ 17, 24, x, x+7 (or) x, x+7, 17, 24.

~~17, 24, x+7~~

(i) x < 17. ~~x, 17, x+7~~

17	24	x	x+7	35	36	46



(10) (A) & (D).