Central Tendencies Assignment

1. Mean of following

a) $9, 7, 11, 13, 2, 4, 5, 5 \Rightarrow \dfrac{9+7+11+13+2+4+5+5}{8} = 7.0$

b) $2.2, 10.2, 14.7, 5.9, 4.9, 11.1, 10.5 \Rightarrow 59.5/7 = 8.5$

c) $1\frac{1}{4}, 2\frac{1}{2}, 5\frac{1}{2}, 8\frac{1}{4}, 2\frac{1}{2} = 1.25+2.5+5.5+3.25+2.5 = \dfrac{15}{5} = 3$

② Mean of $1^{st}$ 10 fibonacci #s

$1, 1, 2, 3, 5, 8, 13, 21, 34, 55 = {}^{143}/_{10} = 14.3$

③ Mean of $1^{st}$ 5 prime #s

2, 3, 5, 7, 11 $= 28/5 = 5.6$

④ $\mu - 8, 11, 6, 14, x, 13 = 66 \Rightarrow$ ~~66x~~ $\dfrac{52+x}{6} = 66$

~~6x~~ $x = 66 \cdot 6 - 52 = 344$

⑤ $M(6.8, x+2, 10, 2x-1, 2) = 9$

$\dfrac{26 + x + 2 + 2x - 1}{6} = 9 \Rightarrow \begin{array}{l} 27 + 3x = 54 \\ 9 + x = 18 \Rightarrow x = 9 \end{array}$

#'s are $6, 8, 11, 10, 17, 2$

⑥ Mean age of 20 boys $\Rightarrow 20/5 = 4$

Marks by 40 ~~pt~~ kids $\Rightarrow 40/5 = 8$

⑦ Mode of following

a) $12, 8, 4, 8, 1, 8, 9, 10, 9, 11, 12, 8 \Rightarrow$ ⑧ $9^2, 10, 11, 12^2$ ← mode

b) $15, 22, 17, 19, 22, 17, 29, 24, 17, 15 \Rightarrow 15^2, ⑰^3, 19, 22^2, 24, 29$

c) $0, 9, 2, 1, 3, 5, 4, 3, 4, 2, 1, 2, 0 \Rightarrow ③$

Central Tendencies - Cont'd

⑧ 17, x, 24, x+7, 35, 36, 46    Median is 25 find x
$$x+7 = 25 \Rightarrow x = 18$$
     Ans: 17, 18, 24, 25, 35, 36, 46

⑨ To find the Median the #'s need to be in ascending order
The first step would be to arrange #'s in ASC order.


⑩ ⓓ → To find the most common color of class can be
done using MODE.