21. Final the mean of the following data using hand and compare it with mumpy mean ().

$$M = 9+7+11+13+2+4+5+5$$

$$-8$$

$$= 56/8 = 7$$

from numpy-mean (), the value is also 7.

$$M = \frac{2.2 + 10.2 + 14.7 + 5.9 + 4.9 + 11.1 + 10.5}{7}$$

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

from numpy mean(), the value is also 8.5

= 3

- from numpy mean (), the value is 3.00

24. The mean of 8, 11, 6, 14, x and 13 = 66. Find the value

$$A = 66$$

$$\Rightarrow 8 + 11 + 6 + 14 + x + 13 = 66$$

$$\Rightarrow 52 + x = 66$$

$$\Rightarrow x = 344$$

Q5. The nyear of 6,8, x+2, 10, 2x-1 and 2 = 9.

Find the value of x and also the value of the observation in the data.

$$A = 9$$

$$\Rightarrow 6 + 8 + x + 2 + 10 + 2x - 1 + 2 = 9$$

$$\Rightarrow \frac{27 + 3x}{6} = 9$$

$$\Rightarrow x = (9x6) - 27$$

$$= 9$$

$$\int_{0}^{\infty} (x+2) = 9+2 = 11$$

 $(2x-1) = 2(9)-1 = 17$

Total age =
$$(12x5) + (10x3) + (15x2) + (14x6)$$

+(8x4)

$$H = \frac{236}{20} = 11.8$$

$$\mathcal{U} = \frac{25(8) + 30(12) + 15(10) + 20(6) + 24(4)}{8 + 12 + 10 + 6 + 4}$$

$$-200+360+150+120+96 = \frac{926}{40} = 23.15$$

8. The following observations are arranged in ascending order. The nyedion of the data is 25, find the value of X.

Given,
$$\widetilde{X} = 25$$

Since, number of elements is 7 ,

Median = $\left\{\frac{1+1}{2}\right\}^{1/4}$ term = $8/2 = 4^{1/4}$ terms

 $\Rightarrow X + 7 = 25$
 $\Rightarrow X = 18$

9 In the above Broblem, how would you approach
the brobben if numbers are not in ascending
order? What are the Bossible value of x then?

(Don't Know the onswir)
(-from the doubt cleaning explanation) -

Some, not about is a odd number that is 7, so, medior connot be the arg of two numbers

The median value is 25 and none of the number in the list is 25, so, either x is 25 or x+7 is 25.

If we keep x as 25, then, we will have something like, Medion 17, 24, 25, 32, 35, 36, 46

We see, a disherbayce in the distribution, since, before and after 25, equal number of elements should reside. So, X = 25 is not the correct answer

Of we gire, $X + 7 = 25 \Rightarrow X = 18$. the list will be, Medion 17, 18, 24, 25, 35, 36, 46

Now, on both sides, we have equal number of

- 10. In which of these situations would you we the mode to necessare the central tending of the mode old.
 - (a) Justin records the temperature at room everyday for two weeks and wants to know the temperature of a typical day.
 - (b) Would you use the unan of the solution?
 - (c) Juliano measures the height of all the girls, on her Soccer tram and wants to know the typical height of a soccer player
 - (d) Som asks the student in her class to identify their favorite color and wants to know which color is the most commen
 - In front d, we will be using mode, because it is a categorical value and mode will the most favorite color