MCSE 079 05536; Shyed Shahrian Housaini Assignment 1% Finding Quartile, Decile, Percentile. Abdaset is given as: [-26, -900,700, 27,10000, 16384, 8025, 49, -730,800,213,523]

A. Task is to find values of 82, D5, P50, 83, P75, D2 & P20.

B. Share your Observation on the values found

Solution: Sorting the data set we find -900, -730, -26, 27, 419, 213, 523, 700, 800, 8025,

10000,16384.

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Sho	Sorted data set
1.	-900
2.	-730
3.	-26
4.	27
5,	49
6.	213
7.	523
8.	700
9.	800
10.	8025
11.	10000
12.	16384
-	Sample Size
	n=12

A)
$$Q_2 = (\frac{2}{4})n = \frac{15}{5} \times 12 = 6$$

 $\therefore Q_2 = (\frac{213 + 523}{2}) = 368$
 $Q_3 = \frac{368}{2}$
 $Q_4 = \frac{368}{2} = \frac{15}{10} \times 12 = \frac{15}{5} \times 12 = 6$
 $\therefore D_5 = \frac{213 + 523}{2} = 368$
 $Q_5 = \frac{13}{100} \times 12 = \frac{15}{5} \times 12 = 6$
 $\therefore P_{50} = \frac{213 + 523}{2} = 368$
 $\therefore P_{50} = \frac{213 + 523}{2} = 368$

$$d_2 = \frac{2}{10} \text{ XM} = 0.2 \text{ X} 12 = 2.4; i. d_2 \approx 3$$

$$\therefore D_2 = -26$$

$$\therefore D_2 = -26$$

$$P_{20} = -26$$

