Related Questions with Solutions

Questions

Quetion: 01

If a variable takes the discrete values
$\alpha + 4, \alpha - \dfrac{7}{2}, \alpha - \dfrac{5}{2}, \alpha - 3, \alpha - 2, \alpha + \dfrac{1}{2}, \alpha - \dfrac{1}{2}, \alpha + 5$ (where, $\alpha > 0$), then the median is

A. $\alpha - \dfrac{5}{4}$

B. $\alpha - \dfrac{1}{2}$

C. $\alpha - 2$

D. $\alpha + \dfrac{5}{4}$

Solutions

Solution: 01

Firstly arrange the given data in ascending order.
$$\alpha - \frac{7}{2}, \alpha - 3, \alpha - \frac{5}{2}, \alpha - 2, \alpha - \frac{1}{2}, \alpha + \frac{1}{2}, \alpha + 4, \alpha + 5$$
$$\therefore \ Median = \frac{1}{2}\Big[\ Value\ of\ 4th\ item + \ Value\ of\ 5th\ iterm \Big]$$
$$= \frac{\alpha - 2 + \alpha - \frac{1}{2}}{2} = \frac{2\alpha - \frac{5}{2}}{2} = \alpha - \frac{5}{4}$$

Correct Options

Answer:01

Correct Options: A