# MATHS

# BOOKS - NAVNEET PUBLICATION

# STATISTICS

**Exercise**

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**1.** Choose the correct alternative for each of the following questions :

The class mark of the class $2000 - 2500$ is

taken as the assumed mean. What is the value

of the deviation $d_i$ for the class 2500-3000?`

A. (a) -500

B. (b) 500

C. (c) 0

D. (d) 1000

Answer:

**2.** Choose the correct alternative for each of the following questions :

What is the class mark of the class 10-100?

A. (a) 55

B. (b) 90

C. (c) 145

D. (d) 190

**Answer:**

**3.** Choose the correct alternative for each of the following questions :

Which of the following is not a measure of the central tendency ?

A. (a) mean

B. (b) median

C. (c) mode

D. (d) standard deviation

**Answer:**

**4.** Choose the correct alternative for each of the following questions :

The value of mean is $56.8$ and $\sum x_i = 2840$. What is the value of $N$?

A. (a) $55$

B. (b) $50$

C. (c) $45$

D. (d) $40$

**Answer:**

**5.** Find the mean $\overline{X}$ in the following cases:

$\sum x_i = 21$ and $N = 6$.

**6.** Find the mean $\overline{X}$ in the following cases:

$\sum f_i x_i = 100$ and $\sum f_i = 20$

▶

**7.** Find the mean $\overline{X}$ in the following cases:

$$\sum f_i x_i = 3880 \text{ and } \sum f_i = 100.$$

**8.** Find the mean $\overline{X}$ in the following cases:

$$\sum f_i x_i = 75 \text{ and } \sum f_i = 15$$

**9.** The classes are $5 - 9, 10 - 14, 15 - 19, 20 - 24, \ldots$ Find the lower boundary of the class $10 - 14$.

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**10.** The classes are $5 - 9, 10 - 14, 15 - 19, 20 - 24, \ldots$ Find the upper boundary of the class $15 - 19$.

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**11.** Find $\bar{d}$ in the following cases:

$$\sum f_i d_i = 108, \sum f_i = 100.$$

**12.** Find $\bar{d}$ in the following cases:

$$\sum f_i d_i = 80, \sum f_i = 50.$$

**13.** Find $\bar{d}$ in the following cases:

$$\sum f_i d_i = 18, \ \sum f_i = 15$$

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**14.** Find $\bar{d}$ in the following cases:

$$\sum f_i d_i = 140, \ \sum f_i = 80.$$

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**15.** Find $\bar{u}$ in the following cases:

$$\sum f_i u_i = -5, \sum f_i = 50$$

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**16.** Find $\bar{u}$ in the following cases:

$$\sum f_i u_i = 66, \sum f_i = 100$$

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**17.** Find $\bar{u}$ in the following cases:

$$\sum f_i u_i = -28, \sum f_i = 100$$

**18.** Find $\bar{u}$ in the following cases:

$$\sum f_i u_i = 21, \sum f_i = 36$$

**19.** Find $\sum f_i d_i$ in the following cases :

$\bar{d} = 1.08, \sum f_i = 100$

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**20.** Find $\sum f_i d_i$ in the following cases :

$\bar{d} = 1.2, \sum f_i = 15$

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**21.** Find $\sum f_i u_i$ in the following cases :

$\bar{u} = 0.8, \sum f_i = 25.$

**22.** Find $\sum f_i u_i$ in the following cases :

$\bar{u} = -0.5, \sum f_i = 50$

**23.** Find the value of $\sum f_i$ for the following information: $\sum f_i d_i = 800, \bar{d} = 8$

**24.** Find the value of $\sum f_i$ for the following information: $\sum f_i d_i = -260, \bar{d} = -3.25$

**25.** Find the value of $\sum f_i d_i$ for the following information. $\bar{d} = 1.2$, $\sum f_i = 15$.

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**26.** Find the value of $\sum f_i d_i$ for the following information: $\bar{d} = 1.75$, $\sum f_i = 80$

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**27.** Find the value of $\bar{u}$ for the following information: $\sum f_i u_i = 54, \sum f_i = 120.$

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**28.** Find the mode from the following information :

$L = 10, h = 2, f_0 = 58, f_1 = 70, f_2 = 42.$

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