

W
4.11.21

Exercise - 11 (A)

5) The age, height and weight chart of 5 students is given below.

Name	Age	Height	Weight
Radha	8 y 3 m	121 cm	25.5 kg
Renu	9 y 1 m	130 cm	28 kg
Rakhi	8 y 8 m	128 cm	27.8 kg
Rani	10 years	131 cm	30 kg
Ranjit	9 y 5 m	130 cm	29.6 kg

a. Radha's age = $8 \times 12 + 3 = 96 + 3 = 99$ months

Renu's age = $9 \times 12 + 1 = 108 + 1 = 109$ months

Rakhi's age = $8 \times 12 + 8 = 96 + 8 = 104$ months

Rani's age = $10 \times 12 = 120$ months

Ranjit's age = $9 \times 12 + 5 = 108 + 5 = 113$ months

The average age = $\frac{99+109+140+120+113}{5}$

$$\frac{545}{5} = 109 \text{ months}$$

b. Total height of 5 students = $121 + 130 + 128 + 131 + 130 = 640 \text{ cm}$

$$\text{Average height of students} = \frac{640}{5} = 128 \text{ cm}$$

c. Total weight of 5 students = $25.5 + 28 + 27.8 + 30 + 29.6 = 140.9 \text{ kg}$

$$\text{Average height of students} = \frac{140.9}{5} = 28.18 \text{ kg}$$

26 Ans: a. Marks of 20 students = 34, 42, 54, 76, 82, 26, 78, 67, 62, 54, 17, 25, 39, 42, 66, 78, 80, 92, 26, 40

$$\text{Average mark of students} = 34, 42, 54, 76, 82, 26, 78, 67, 62, 54, 17, 25, 39, 42, 66, 78, 80, 92, 26, 40 = 1080.$$

$$\text{Average mark} = \frac{1080}{20} = 54 \text{ marks}$$

- b. 9 students have scored marks more than the average mark.
- c. 9 students have scored marks less than the average mark.

Q7A. a. The average attendance of class VA =

$$\frac{48 + 50 + 52 + 46 + 44}{5} = \frac{240}{5} = 48$$

The average attendance of class VB =

$$\frac{49 + 51 + 48 + 45 + 47}{5} = \frac{240}{5} = 48$$

The average attendance of class VC =

$$\frac{50 + 47 + 45 + 48 + 50}{5} = \frac{240}{5} = 48$$

All class have same attendance.

b. The average attendance of 3 classes on Monday =

$$\frac{48 + 49 + 50}{3} = \frac{147}{3} = 49$$

The average attendance of 3 classes on Tuesday =

$$\frac{50 + 51 + 47}{3} = \frac{148}{3} = 49.33$$

The average attendance of 3 classes on Wednesday =

$$\frac{52 + 51 + 47}{3} = \frac{145}{3} = 48.33$$

The average attendance of 3 classes on Thursday =

$$\frac{46 + 45 + 48}{3} = \frac{139}{3} = 46.33$$

The average attendance of 3 classes on Friday =

$$\frac{44 + 47 + 50}{3} = \frac{141}{3} = 47$$

On ~~the~~ Tuesday, the average attendance of the three classes was best.

On Friday, the average attendance of the three classes was best.

Q8A. a Average mark in english = $\frac{63+50+82+60+48}{6}$

$$= \frac{378}{6} = 63$$

Average mark in Hindi = $\frac{58+37+48+58+51}{6}$

$$= \frac{300}{6} = 50$$

Average mark in Maths = $\frac{85+41+91+62+47}{6}$

$$= \frac{396}{6} = 66$$

Average mark in Science = $\frac{68+40+88+60+56}{6}$

$$= \frac{372}{6} = 62$$

$$\text{Average mark in History} = \frac{70 + 50 + 74 + 65 + 51 + 80}{6}$$

$$= \frac{390}{6} = 65$$

$$\text{Average mark in Geography} = \frac{64 + 46 + 73 + 67 + 47 + 75}{6}$$

$$= \frac{372}{6} = 62$$

b.
$$\text{Average mark of Amar} = \frac{63 + 58 + 85 + 68 + 70 + 64}{6}$$

$$= \frac{408}{6} = 68$$

$$\text{Average mark of Balbir} = \frac{50 + 37 + 41 + 40 + 50 + 46}{6}$$

$$= \frac{264}{6} = 44$$

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The average marks of Chander = $\frac{82+48+91+88+74}{6}$

$$= \frac{456}{6} = 76$$

The average marks of Dilraj = $\frac{60+58+62+60+65+67}{6}$

$$= \frac{372}{6} = 62$$

The average marks of K. L. = $\frac{48+51+47+50+51+47}{6}$

$$= \frac{294}{6} = 49$$

The average marks of Fatima = $\frac{75+48+70+66+80+77}{6}$

$$= \frac{414}{6} = 69$$

- c. Math has highest marks.
- d. Hindi has highest marks.