



**BK BIRLA CENTRE FOR EDUCATION**  
SARALA BIRLA GROUP OF SCHOOLS  
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL  
Pre-Mid Term- 2024-25  
MATHEMATICS (041) ANSWER KEY



Class : VII  
Date : 03.08.2024  
Admission No.:

Duration: 1 Hrs.  
Max. Marks: 25  
Roll No.:

*General Instructions:*  
Questions 1 to 5 are 1 mark each.  
Questions 6 to 9 are of 2 marks each.  
Questions 10 and 13 are of 3 marks each.

**SECTION-A**

**(5 × 1 = 5)**

**Choose the correct answer.**

- 1) The place value of 8 in 5.389 is \_\_\_\_\_  
a) 0.8                      b) **0.08**                      c) 0.008                      d) ) None of these
- 2) What is  $1.2 \times 1.2$ ?  
a) 144                      b) 14.4                      c) **1.44**                      d) ) None of these
- 3) Mode of the distribution 3, 5, 7, 4, 2, 1, 4, 3, 4 is -----  
a) 1                      b) 3                      c) **4**                      d) 7
- 4) What is  $\frac{3}{5}$  of 25 \_\_\_\_\_  
a) **15**                      b) 10                      c) 5                      d) None of these
- 5) The marks of 11 students of a class are given below:  
87, 11, 99, 36, 49, 6, 87, 63, 30, 55, 22 .  
The range of marks is  
a) 90                      b) 91                      c) 92                      d) **93**

**SECTION- B**

**(4 × 2 = 8)**

6) Solve: **(1 marks for each correct answer)**

- a)  $15.61 \times 100 = \mathbf{1561}$                       b)  $4.258 \times 1000 = \mathbf{4258}$

**OR**

A car covers a distance of 15.8 km in one litre of petrol. How much distance will it cover in 10 litres of petrol?

**Total distance covered by car in one liter of petrol = 15.8km**  
**Total distance covered by by car in 10 liter of petrol =  $15.8 \times 10$  ----- (1)**  
**= 158 Km ----- (1)**

7) Multiply and express as mixed fraction:

$7 \times 2\frac{1}{4}$   
 $7 \times \frac{9}{4} = \frac{63}{4} = 15\frac{3}{4}$  ----- (1)

8) The marks (out of 100) obtained by a group of students in a mathematics test are 85, 76, 90, 85, 39, 48, 56, 95, 81 and 75.

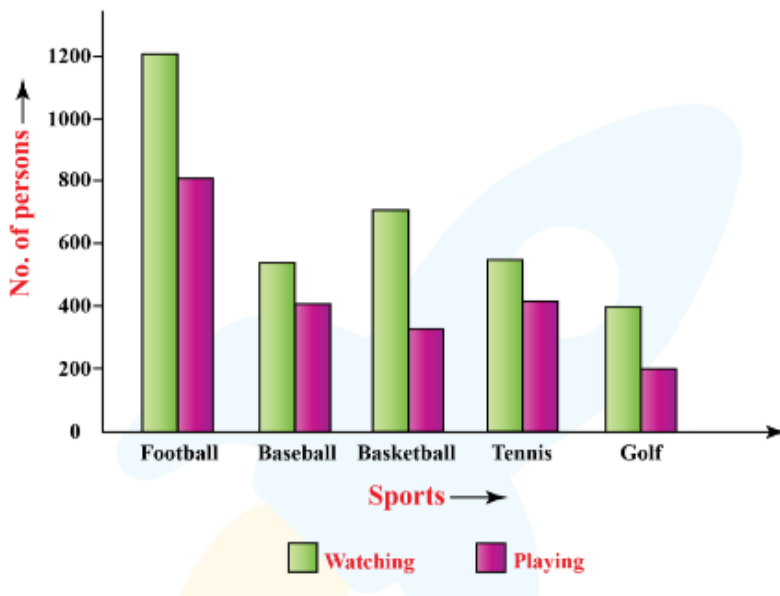
Find the: **(1 mark for each correct answer)**

(i) Highest and the lowest marks obtained by the students. **Highest = 95, Lowest = 39**

(ii) Range of the marks obtained. **Range = Highest – Lowest = 95 – 39 = 56**

9) Observe this bar graph which is showing the data collected from a survey of a city. Answer the following questions ( $\frac{1}{2}$  mark for each correct answer)

1. Which game has the highest viewers? = **Football**
2. Which game has the least viewers? = **Golf**
3. Which sports team(s) has about 400 players? = **Baseball**
4. How many basketball players are in the city? = **300**



## SECTION- C

(4 X 3 = 12)

10) Solve: ( $1\frac{1}{2}$  marks for each correct answer)

a)  $\frac{3}{2} \times 5\frac{1}{3} = \frac{3}{2} \times \frac{16}{3} = 8$

b)  $\frac{4}{9} \div \frac{2}{3} = \frac{4}{9} \times \frac{3}{2} = \frac{2}{3}$

11) Find: (1 mark for each correct answer)

a)  $52.5 \div 10 = 5.25$

b)  $98.72 \div 100 = 0.9872$

c)  $128.9 \div 1000 = 0.1289$

OR

A vehicle covers a distance of 43.2 km in 2.4 litres of petrol. How much distance will it cover in one litre of petrol?

**Total distance covered by vehicle in 2.4 liter of petrol = 43.2 Km**

**Total distance covered by vehicle in 1 liter of petrol =  $43.2 \div 2.4$  ----- (1)**

$$= \frac{432}{10} \div \frac{24}{10} = \frac{432}{10} \times \frac{10}{24} = \frac{432}{24} = 18\text{Km} \text{ ---- (2)}$$

12) The runs scored in a cricket match by 11 players is as follows:

6, 15, 120, 50, 100, 80, 10, 15, 8, 10, 15

Find the mean, mode and median of this data. Are the three same?

Arranging the runs scored in a cricket match by 11 players in ascending order, we get

6, 8, 10, 10, 15, 15, 15, 50, 80, 100, 120

Mean of the given data = Sum of all observations/Total number of observations

$$= (6 + 8 + 10 + 10 + 15 + 15 + 15 + 50 + 80 + 100 + 120) / 11$$

$$= 429/11$$

$$\text{Mean} = 39 \text{ ----- (1)}$$

$$\text{Mode} = 15 \text{ ----- (1)}$$

$\therefore$  Median = value of  $\frac{1}{2}(n + 1)^{\text{th}}$  observation

$$= \frac{1}{2}(11 + 1)$$

$$= \frac{1}{2}(12)$$

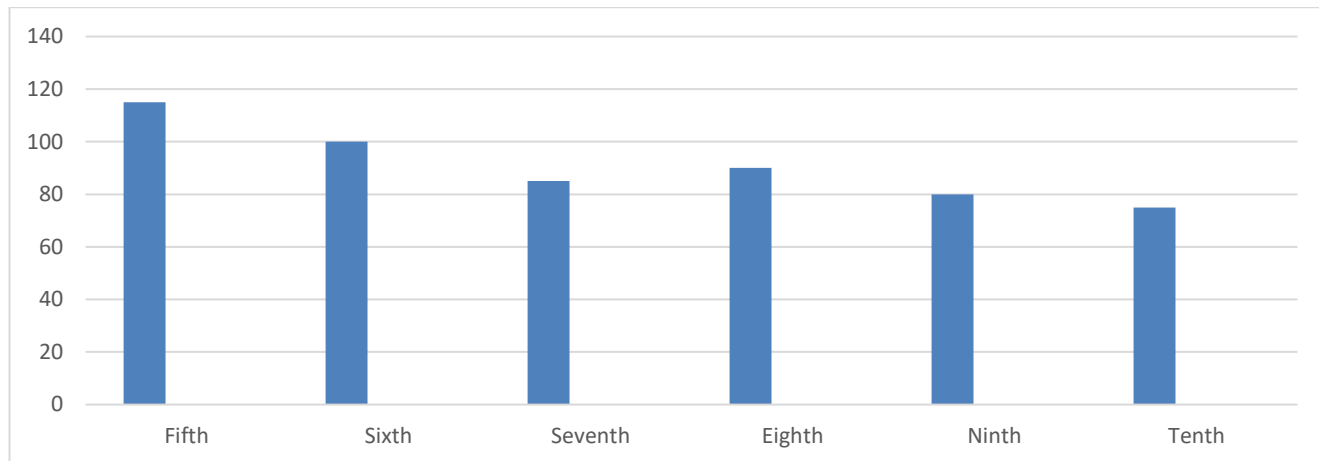
$$= 6$$

$$\text{Then, the value of the 6}^{\text{th}} \text{ term} = 15 \text{ ----- (1)}$$

No, these three are not the same.

13) Number of children in six different classes are given below. Represent the data on a bar graph.

Classes	Fifth	Sixth	Seventh	Eighth	Ninth	Tenth
Number of children	115	100	85	90	80	75



----- (3)

\*\*\*\*\*The End \*\*\*\*\*