



# INDIAN SCHOOL AL WADI AL KABIR

Pre-Mid-Term Examination (2023-24)

Class: VII

Sub: MATHEMATICS

Max Marks: 30

Date: 25-05-2023

Set – 1(ANSWER KEY)

Time: 1 hour

**Instructions:**

Section A: Multiple Choice Questions (Q.1 to Q.6)

Section B: Source-based questions (Q.7 to Q.11)

Section C: Long Answer Questions (Q.12 to Q.14)

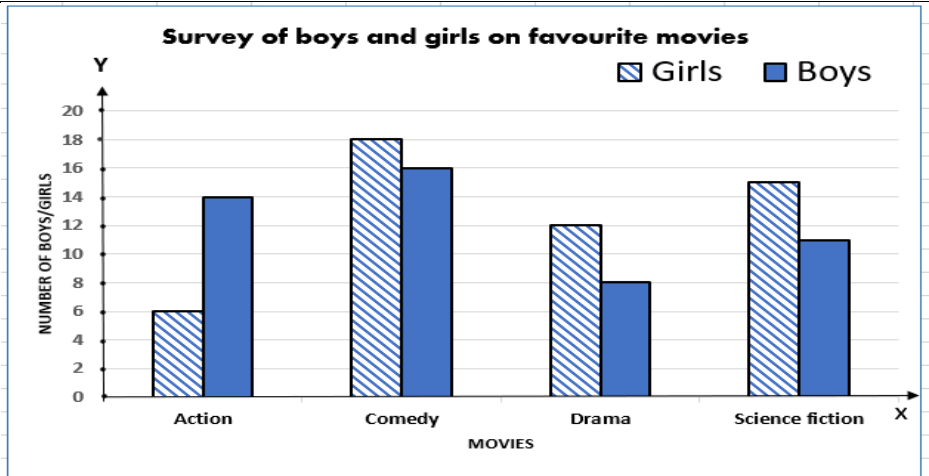
Section D: Case study Questions (Q.15 to Q.16).

**Section A: Multiple Choice Question (Q.1 to Q.6) of 1 mark each**

1.	A box contains 80 fountain pens. Out of which 25 pens are not working. What is the fraction of pens that are not working?							
					C	$\frac{5}{16}$		
2.	What is the reciprocal of a fraction $\frac{4}{23}$ ?							
					C	$\frac{23}{4}$		
3.	Reema reads $\frac{4}{5}$ pages of a book. If she further reads $\frac{2}{3}$ pages of the book. How many pages of the book did she read in all?							
			B			$\frac{22}{15}$		
4.	Small boxes of popcorn weigh 0.6 kg each. How much will 10 boxes weigh?							
	A	6.0 Kg						
5.	A milkman delivers 25.50 L of milk in the morning and 23.250 L in the evening. How much milk does he deliver in a day?							
							D	48.750 L
6.	The total weight of 100 bags of cement is 4106.2 kg. Find the weight of one bag.							
			B			41.062 kg		

**Section B: Source-based questions (Q.7 to Q.11) of 1 mark each**

The school's Drama teacher surveyed boys and girls on their preference for the movie and represented the data in the form of a double bar graph.



7. Which type of movie is the most popular among both girls and boys?

B Comedy

8. Which is the least preferred movie by boys?

A Drama

9. How many girls like Comedy movies?

D 18

10. Find the total number of students who preferred to watch Action Movies.

A 20

11. If the cost of one movie ticket is ₹ 545. Calculate the cost of 5 tickets.

B ₹ 2725

**Section C: Long Answer Questions (Q12 to Q.14)**

12. The weight of 8 boxes of Mangoes is 75.2 Kg. Find the weight of one box.

$75.2 \div 8$  -----  $\frac{1}{2}$  mark

$\frac{752}{100} \times \frac{1}{8}$  1 mark

9.4 kg -----  $\frac{1}{2}$  mark

13. In a class of 50 students,  $\frac{1}{5}$  of the total number of students like to eat orange candy only,  $\frac{2}{5}$  of the total number of students like to eat watermelon candy only and the remaining students like to eat both.

1. How many students like to eat orange candy?

$\frac{1}{5} \times 50 = 10$  ----- 1 mark

2. How many students like to eat watermelon candy?

$\frac{2}{5} \times 50 = 20$  ----- 1 mark

3. Find the number of students that like both flavours of candy?

$50 - (10+20) = 20$  ----- 1 mark

14. Classes VII and VIII students have to choose to join one club from music, Dance, Yoga, and Art & craft. The data given below shows the choices made by girls and boys in the class. Draw a double bar graph using the appropriate scale to depict the below data

Clubs	Music	Dance	Yoga	Art & Craft
<b>Girls</b>	80	50	60	75
<b>Boys</b>	50	35	70	40

Each bar 4 X (  $\frac{1}{2}$  +  $\frac{1}{2}$  )

**Section D: A case study (Q.15 & Q.16) of 5 marks each**

15. **Case Study-1:**

Students want to decorate their classrooms for an upcoming event. They bought  $2\frac{2}{3}$  m of yellow ribbon,  $5\frac{1}{6}$  m of red ribbon and  $\frac{7}{3}$  m of blue ribbon for decorating their classrooms.

Answer the following questions.

(I) Find the total length of the yellow and red ribbons?

$$2\frac{2}{3} = \frac{8}{3} \quad , \quad 5\frac{1}{6} = \frac{31}{6} \quad \left( \frac{1}{2} + \frac{1}{2} \right)$$

$$\frac{8 \times 2}{3 \times 2} + \frac{31}{6} \quad , \quad \frac{47}{6} = 7\frac{5}{6} \quad \left( \frac{1}{2} + \frac{1}{2} \right)$$

(II) Find the length of each part if the blue ribbon is divided into five equal part.

$$\frac{7}{3} \div 5 \quad \text{----- } \frac{1}{2} \text{ mark}$$

$$\frac{7}{3} \times \frac{1}{5} \quad \text{1 mark}$$

$$\frac{7}{15} \quad \text{----- } \frac{1}{2} \text{ mark}$$

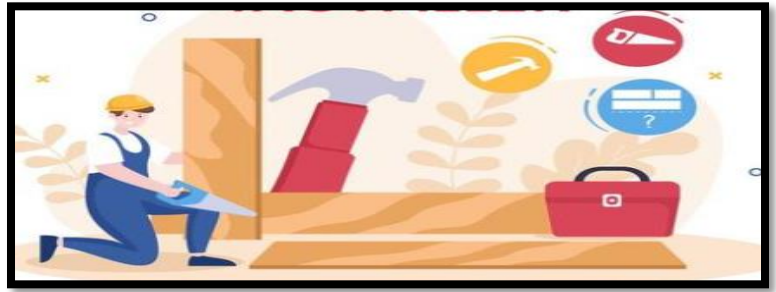
(III) What will be the total cost of the blue ribbon if its cost ₹ 3 per metre? ribbon.

$$\frac{7}{3} \times 3 = \frac{21}{3} = 7 \quad \left( \frac{1}{2} + \frac{1}{2} \right)$$



16. **Case Study-2:**

The school management decided to renovate the multipurpose hall of the school. The floor of the hall is 20.5 m long and 9.6 m wide.



Answer the following questions.

(I) Calculate the area of the rectangular floor of the multipurpose hall.

$$\text{Area} = l \times b \quad \left(\frac{1}{2}\right)$$

$$= 20.5 \times 9.6 \quad \left(\frac{1}{2}\right)$$

$$= 196.80 \text{ m}^2 \quad (1)$$

(II) If the amount to be 750.50m paid by the school for 50 new tiles is ₹. Find the cost of one tile.

$$750.50 \div 50 \quad \text{----- } \frac{1}{2} \text{ mark}$$

$$\frac{75050}{100} \times \frac{1}{50} \quad 1 \text{ mark}$$

$$\text{₹}15.01 \quad \text{----- } \frac{1}{2} \text{ mark}$$

(III) Express length of the new tile is 130 cm as metre using decimals.

$$\frac{130}{100} \quad \left(\frac{1}{2}\right) \quad 1.30\text{m} \quad \left(\frac{1}{2}\right)$$