

INDIAN SCHOOL AL WADI AL KABIR

Mid-Term Examination (2022-23)

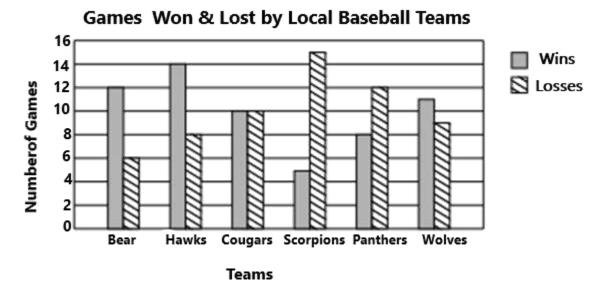
Class: VII	Sub: MATHEMATICS	Max Marks: 80
Date: 27/09/2022	Set - I	Time: $2\frac{1}{2}$ hours

Instructions:

	Section A: Multiple Choice Question (Q.1 to Q.5) & Source based Question (Q.6) Section B: Short Answer Questions of 2 marks each (Q.7 to Q.15)									
Sect	tion B: Sho	ort Answer Que	stions of	2 marks each (C	2.7 to Q	.15)				
Sect	tion C: Lor	ng Answer Que	stions (Ty	/pe – 1) of 3 ma	rks eacł	n (Q.16 to Q.23)				
Sect	tion D: Lor	ng Answer Que	stions (Ty	/pe – 2) (Q.24 t	o Q.28)					
		-			-	h				
	ä	Case study Qu	estion (Q	.29 & Q.30) of 4	F marks	each				
		Section A: N	Iultiple C	hoice Question ((Q.1 to (Q.5) of 1 mark ead	ch			
1.	Write ec	quation for the	following	statement:						
	"Six mor	e than seven ti	mes a nu	mber is thirty-fo	ur"					
	Α	y + 6 = 34	В	7y + 6 = 34	С	6y + 7 = 34	D	y – 7 = 34		
2.	Find the range of the weights (in kg) of the students of a class given below: 48, 60, 47, 50, 47, 57, 58, 45, 53.									
	Α	50	В	13	С	15	D	47		
3.	Find the	pair of integers	s whose s	sum is (-5).						
	Α	(-1, 6)	В	(5, 0)	С	(1, -4)	D	(-3, -2)		
4.	By using decimals express 1125 paise as rupees.									
	Α	₹ 1.125	В	₹ 11.25	С	₹ 110.25	D	₹ 112.50		
5.	5. If two angles are complementary angles and one of the angles is of 52° then find the measure of another angle.									
	Α	38°	В	100°	С	68°	D	128°		

Source based Question (Q.6)-5 Marks

Q6. Given below is a double bar graph which shows the number of games won and lost by six local baseball teams. Observe the graph and answer the questions that follows.

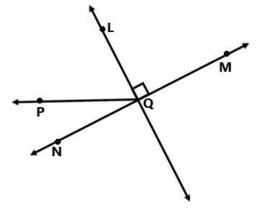


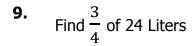
I How many games won by team Bear?

	Α	11	В	10	С	6	D	12
II	Which tea	m won and los	st the sam	e number of ga	mes.			
	Α	Hawks	В	Panthers	С	Cougars	D	Bear
III	How many	y more games	did the H	awks win than t	he Panthe	rs?		
	Α	4	В	6	С	2	D	1
IV	For the Pa	inthers, what i	s the ratio	o of number of g	games wor	to number of	games l	ost?
	Α	2:3	В	2:1	С	3:4	D	3:2
V	Which tea	m won least n	umber of	games?				
	Α	Hawks	В	Scorpions	С	Bear	D	Wolves

Section B: Short Answer Questions (Type – 1) of 2 marks each (Q.7 to Q.15)

- 7. Find the product: $(-20) \times (-4) \times 15$
- **8.** From the given figure write the names of the following angles:
 - a) A linear pair
 - b) A pair of complementary angles.

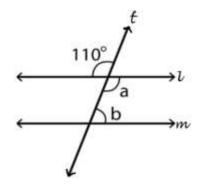




10. Use the sign of >, < or = in the box to make the statements true.

-7 + 15 -7 - 15

- **11.** Solve the equation: 3x + 2 = 17
- **12.** Lines $\mathcal{U} \mid \mid m_i$ and t is a transversal. Find the angles a and b.



13. Check whether the value given in the brackets is a solution of the given equation or not? (Show working)

5x - 2 = 14; (x = 2)

- **14.** Find the median of the following data: 61, 43, 127, 99, 41, 92, 71, 58, 57.
- **15.** Find the value of the following:
 - A) 0.0805 × 100
 - B) 64.32 ÷ 10

Section C: Long Answer Questions (Type – 1) of 3 marks each (Q.16 to Q.23)

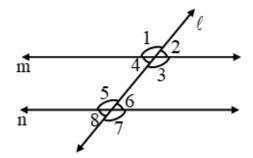
- **16.** Find the solution of the equation: 4(p-3) = 16
- **17.** Manu recorded the temperatures (in °C) of different cities as follows:

29, 30, 25, 27, 40, 39, 42, 19, 28. Find the mean of the data.

18. Find the value of the following using suitable property.

 $(-192) \times 143 + (-192) \times 57$

- **19.** Divide: $7\frac{1}{2} \div \frac{3}{4}$
- **20.** A plane is flying at the height of 3500 m above the sea level. At a particular point, it is exactly above a submarine floating 1000 m below the sea level. What is the vertical distance between them?
- **21.** In the adjoining figure, $m \parallel n$ and ℓ is the transversal. Identify
 - (i) a pair of corresponding angles.
 - (ii) a pair of alternate interior angles.
 - (iii) a pair of interior angles on the same side of the transversal.



- **22.** A glass jar contains 5 red, 7 green, 9 blue and 11 yellow marbles. If a single marble is picked at random from the jar, what is the probability of
 - a) Getting a blue marble
 - b) Getting a red marble
 - c) Getting a yellow marble

23 Alka walks $3\frac{1}{4}$ km in one hour. How far does she go in 7 hours?

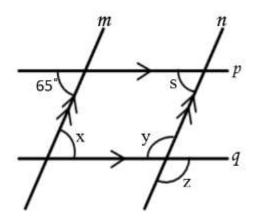
Section D: Long Answer Questions (Type – 2) (Q.24 to Q.28)

& Case study (Q.29 &30) of **4** marks each

24. In a class test containing 11 questions, 5 marks are awarded for every correct answer and

(-2) marks are awarded for every incorrect answer.

- i) Tina got 8 correct answers and 3 incorrect answers. What is her total score?
- ii) Reena got 4 correct answers and 6 incorrect answers. What is her total score?
- **25.** Find missing angles x, y, z and s from the given figure; if the lines $m \parallel n$ and $p \parallel q$.



- **26.** A car covers a distance of 183.9 km in 3 hours.
 - a) Find the distance covered by the car in one hour?
 - b) Find the distance covered by the car in 2.5 hours?
- 27. Anil's mother is 60 years old. She is 8 years older than twice Anil's age. What is Anil's age?
- **28.** The following table shows the number of girls and boys of a class who take part in different sports activities. Draw a double bar graph to represent the data.

Sports	Hockey	Badminton	Football	Cricket
Boys	30	50	80	70
Girls	20	60	40	30

29. Case Study-1

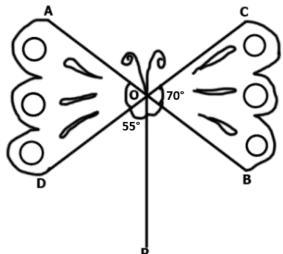


Veena, Sania and Kaniha are friends. They share their toys with each other while playing. Veena has some marbles. Sania has 10 more marbles than Veena has. Kaniha has 3 less than two times the marbles which Veena has. Based on this information answer the following questions:

I.	If Veena has ' x' marbles, write the expression for the number of marbles Sania has.										
	A	10 - <i>x</i>	В	10 <i>x</i>	С	<i>x</i> + 10	D	$\frac{x}{10}$			
II.	Write the expression for the number of marbles Kaniha has.										
	A	$\frac{2}{3}x$	В	2x - 3	С	3x + 2	D	6 <i>x</i>			
III.	After sometime Karan joined with them for playing. He says that he has 6 marbles more than five times the number of marbles Veena has. If Karan has 36 marbles and Veena has x number of marbles, write the equation to represent the statement.										
	A	5x = 36	В	6x - 5 = 36	С	6x + 5 = 36	D	5x + 6 = 36			
IV.	After finished playing they wanted to eat some candies. Kaniha said that there are $(3y + 5)$ candies on the table. If $y = 4$, then what is the number of candies on the table.										
	A	20	В	17	С	12	D	7			

Case Study-2 30.

Miya was making a toy butterfly with sticks for her younger sister. She arranged the sticks as shown in figure. AB and CD are two sticks intersecting at O and a third stick OP is also joined to hold the toy butterfly. From the figure $\angle BOC = 70^{\circ}$ and $\angle DOP = 55^{\circ}$. Based on the



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I	What is the value of $\angle AOD$.										
	A	110°	В	55°	С	70°	D	30°			
II	The angles $\angle AOC$ and $\angle BOD$ are										
	A	Linear pair	В	Complementary angles	С	Supplementary angles	D	Vertically opposite angles			
III	Which of the following is adjacent supplementary angles?										
	A	∠A0C&∠C0B	В	∠POB&∠BOC	С	∠AOD&∠BOC	D	∠DOP&∠POB			
IV	What is the value of $\angle POB$?										
	A	90°	В	70°	с	55°	D	85°			

above information answer the following questions: