

INDIAN SCHOOL AL WADI AL KABIR

MID TERM EXAMINATION (2024-25)

CLASS:VI Mathematics - Set 2 Max. Marks: 80

Date: 22/09/2024 Marking Scheme Time: $2\frac{1}{2}$ hours

General Instructions.

- 1. This question paper contains 4 sections, Section A,B, C & D
- 2. All questions are compulsory.
- 3. Section A has 20 questions carrying 1 mark each.
- 4. Section B has 5 questions carrying 2 marks each.
- 5. Section C has 6 questions carrying 3 marks each.
- 6. Section D has 8 questions carrying 4 marks each.

	Section A: Multiple Choice Question (Q.1 to Q.15) of 1 mark each							
1.	In	In which of the following the correct prime factorization is done?						
	A		В		С	45 = 3 x 3 x 5	D	
2.	The	e Predecessor of 4900)99 i	S:				
	A		В		C	490098	D	ı
3.	Identify the type of angle marked in the given figure: $\begin{picture}(1,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0)$							
	A		В	Reflex angle	C		D	
4.	In	which of the following	j nu	mbers the digit 2 has t	he p	lace value 20000?		
	A	725401	В		С		D	
5.	The	e side of a ruler is an	exa	mple of:				
	A		В		С	line segment	D	
6.	Wh	nich of the following p	airs	of number are co-prim	ne?			
	A		В		С	(12, 17)	D	

7. Which property of whole numbers is shown here? 123 x (28 + 72) = (123 x 28) + (123 x 72) 8. An angle whose measure is between a right angle and a straight angle is called A B C D obtuse angle 9. The number of whole numbers between 56 and 83 is: A B 26 C D 10. Michael scored a total of 32,292 points in a computer game. Rounding off the points to nearest hundreds is: A B 32300 C D 11. The multiplicative identity for whole numbers is: A B 1 C D 12. The numeral for eight million seventy-five thousand six hundred eighty is: A B C D 8,075,680 13. Which of the following number is divisible by 4? A 56724 B C D 14. From the following a common multiple of 6 and 9 is: A B C 36 D 15. Which of the following is the expanded form of the number 6,50,489									
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15. Which of the following is the expanded form of the number 6,50,489 C	14.	Fro	om the following a cor	nmo	n multiple of 6 and 9 i	s:			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		A		В		С	36	D	
A B C $\begin{vmatrix} 5 \times 10000 + \\ 4 \times 100 + 8 \times 10 \end{vmatrix}$ D	15.	Wh	nich of the following is	the	expanded form of the	nur	mber 6,50,489		
		A		В		С	5 x 10000 + 4 x 100 + 8 x 10	D	

16. **Source based Question -5 Marks** The following graph shows the number of cars manufactured by a factory in 6 years. Observe the graph and answer the questions given below: ΥÀ Scale: 1 unit = 100 cars 900 800 700 600 500 400 300 200 100 0 2005 2007 2008 2009 2010 2006 Years-Ι In which year maximum number of cars manufactured? C D Α В 2010 II In which year the number of cars manufactured is minimum? C Α В 2008 D III In which years equal number of cars manufactured? 2005, 2009 C Α В D IV How many more cars manufactured in 2010 than in 2009? В 200 D Α V The difference between maximum and minimum number of car production is: C Α 500 В D **Section B**: Short Answer Questions (Type -1) of **2** marks each (Q.17 to Q.21)

17	VYY	/5 ± 3) ricina	number	lina
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Ans: Number line (1m)

Showing addition by jumping and final answer (1m)

18. Find the smallest and greatest 6 – digit number that can be formed using the digits: 5,3,8,0,7,1

Ans: Greatest number: 875310.....(1m)

Smallest number: 103578(1m)

19. Using protractor draw an angle of measure 50°.

Ans: Initial ray (1/2 m)

Correct measurement (1m), Final ray (½ m)

Simi collected 15 different leaves from a garden and wrote down their lengths, in cm. The results are given below. Prepare a frequency distribution table for the data.

Ans: (½ m) each for each frequency

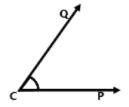
Length in cm	Tally marks	Frequency
2		3
3		2
4		4
5	1111	6
Total		15

5	4	5	2	4
5	3	2	5	4
5 5 2	5	4	3	5

21. A) Draw and label an angle with vertex C and arms CP and CQ.

B) What will be the angle between the hands of the clock at 3 o'clock?

Ans: A) Correct labelling and drawing(1m)



B) Angle between 2 consecutive numbers in a clock = 30° (1/2 m)

At 3 o'clock angle between hands of the clock = $3 \times 30^{\circ} = 90^{\circ} \dots (1/2 \text{ m})$

Section C: Long Answer Questions (Type – 1) of **3** marks each (Q.22 to Q.27)

22. Find the common factors of 24 and 28.

Ans: Factors of 24 = 1,2,3,4,6,8,12,24....(1m)

Factors of 28 = 1,2,4,7,14,28....(1m)

Common factors = 1, 2, 4....(1m)

Suman has an amount of ₹ 25,000. He placed an order for 140 toy cars for his new shop. If the cost of each toy car is ₹75, how much money is left with Suman after the purchase?

Ans: Amount Suman had = ₹ 25,000(1/2 m)

No. of toy cars = $140 \dots (\frac{1}{2} \text{ m})$

Total cost of toy cars = $140 \times 75 = 10500 \dots (1m)$

Amount left after purchase = 25000 - 10500(½ m)

= ₹14,500..... (½ m)

24. Arun purchased 63 cricket balls for ₹430 each and 63 footballs for ₹570 each. Find how much did he pay in all.

Ans: No. of cricket balls = 63

Cost of one cricket ball = ₹430

No. of footballs = 63

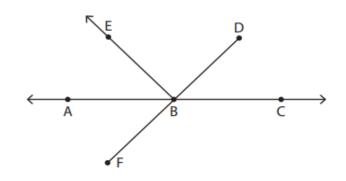
Cost of one football = ₹570

.....(1m)

Amount paid in all = $63 \times 430 + 63 \times 570$ (½m) = $63 \times (430 + 570)$ (½m) = $63 \times 1000 = ₹63,000$ (½+½)

- **25.** From the figure name the following:
 - 1. A line
 - 2. A ray
 - 3. A line segment

Ans: 1. A line = AC (1m)



	2. A ray = BA, BC, BE (Any one)(1m)							
	3. A line segment = FB, BD, FD, BC, AB, BE, AC (Any one)(1m)							
26.	The frequency table shows the favourite sports of children from a particular class in a school.	Sports	Tally Marks	Frequency				
	Observe the table and answer the questions given below:	Athletics	III	3				
	a) Which sport is liked by least number of children?b) Name the sport liked by the greatest	Football	 	8				
	number of children. c) How many children like hockey as their favourite sport?	Golf	II	2				
	Ans: a) Golf (1m)	Hockey	1111	6				
	b) Football (1m)	Describes	1111	4				
	c) 6 (1m)	Rugby		4				
27.	7. Check whether the given number is divisible by 11 or not (Show working)- 981307							
	Ans: Sum of odd place digits = $7 + 3 + 8 = 18$ (1m)							
	Sum of even place digits = $0 + 1 + 9 = 10$	(1m)						
	Difference = $18 - 10 = 8$, not divisible by 11	(½m)						
	∴981307 is not divisible by 11(½m)							
	Section D: Long Answer Questions (Type – 2) (Q.28 to Q.33)							
	& Case study (Q.34 &35) of 4 marks each							
28.	Find by suitable rearrangement:							
	i) 8 × 689 × 125 ii) 713 + 248 + 187							
	Ans: i) $8 \times 689 \times 125 = (8 \times 125) \times 689 \dots (1m)$							
	= $1000 \times 689 = 689000 \dots (\frac{1}{2}m + \frac{1}{2}m)$							
	ii)713 + 248 + 187 = (713 + 187) + 248(1m)							
	$= 900 + 248 = 1148 \dots (1/2m + 1/2m)$							

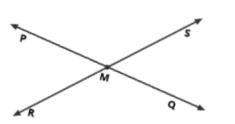
29. Draw a rough figure and write labels appropriately to illustrate each of the following:

- a) Point A lies on XY.
- b) PQ and RS intersect at point M.

Ans: a) Line (1m) and Labelling (1m)

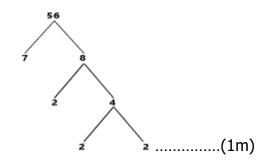
b) Line (1m) and Labelling (1m)





a) Find the prime factorization of 56 using **factor tree** method.

$$56 = 2 \times 2 \times 2 \times 7 \text{ (1m)}$$



b) Find the prime factorization of 80 using **division** method. 80 = 2 x 2 x 2 x 2 x 5 ...(1m)

2	80	
2	40	
2	20	
2	10	
5	5	
	1	(1m)

31. Population of Agra and Aligarh districts in the year 2001 was 36,20,436 and 29,92,286 respectively.

- a) What was the total population of the two districts in that year?
- b) Which city is more populated? By how much:

Ans: a) Population of Agra = 36,20,436

Population of Aligarh = 29,92,286

The total population = 36,20,436 + 29,92,286 = 66,12,722(1m)

b) Comparing 36,20,436 > 29,92,286....(1m)

More populated city = Agra (1m)

By how much = 36,20,436 - 29,92,286 = 6,28,150....(1m)

32.	5 days is given belousing the key	ks sold by a bookselle w. Prepare a pictogra the following data.	Days No. of books = 10 books Monday
	Days	No. of books	Tuesday Wednesday Washington
	Monday	60	Wednesday
	Tuesday	50	Thursday Friday
	Wednesday	30	Triday
	Thursday	80	Table½m
	Friday	20	½m each for each days and 1m for the complete pictograph.
34.	Ans: 1 mark each fo	or each parts.	the by 6 students in their exam out of 50 total marks.
	Name of Student	Marks obtained	Key: = 5 marks
	Zara	***	\$\frac{1}{2} \frac{1}{2} \frac
	Ali	***	
	Mary	***	$\stackrel{\wedge}{\Longrightarrow}$
	Gabriel	$\Rightarrow \Rightarrow \Rightarrow$	
	Ahmed	***	
	Sophia	***	
	Observe the pictogr	aph and answer the f	ollowing questions:

a) Name the student who got 25 marks in the test Mary	(1m)
b) How much marks Gabriel got? - 15	(1m)
c) Who got 50 out of 50 in the exam? - Ahmed	(1m)
d) How much more marks did Sophia score than Ali? - 15	(1m)

35. Case Study-2

Tom and Sam are playing with Number Fluency Card Game. Both of them picked cards at random. Tom picks a card with number 40 on it. In Sam's card the number appeared is 32. Based on the numbers they started asking some questions.

- i. Find the first three multiples of 40. = 40, 80, 120(1m)
- ii. Write the 6^{th} multiple of 32. = 192 **(1m)**
- iii. Write the factors of 32.

Factors of 32 = 1,2,4,8,16,32(2m)

