

INDIAN SCHOOL AL WADI AL KABIR

REVISION PAPER FINAL EXAM (2023-24)

Class: VIII Sub: MATHEMATICS Max Marks: 80

Instructions:

Section A: Multiple Choice Question (Q.1 to Q.15) & Source based Question (Q.16)

Section B: Short Answer Questions of 2 marks each (Q.17 to Q.21)

Section C: Long Answer Questions (Type -1) of 3 marks each (Q.22 to Q.27) Section D: Long Answer Questions (Type -2) of 4 marks each (Q.28 to Q.33)

& Case study Question (0.34 & 0.35) of 4 marks each.

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		Section A: M	lultipl	le Choice Question (Q	.1 to	Q.15) of 1 mark ea	ich		
1.	If 60% people in a city like cricket, 30% like football and the remaining like other games, then what per cent of the people like other games?								
	Α	100%	В	10%	С	90%	D	30%	
2.	Find the volume of a rectangular box with xy , $2x^2y$ and $2xy^2$ as length, breadth and height respectively.								
	Α	$2x^4y^4$	В	$1x^3y^3$	С	$4x^4y^4$	D	$4x^3y^3$	
3.	The multiplicative inverse of $\frac{-7}{4} \times \frac{1}{4}$								
	A	$\frac{7}{16}$	В	$\frac{4}{7}$	O	$\frac{-16}{7}$	D	$\frac{7}{16}$	
4.	An item marked at ₹ 900 is sold for ₹ 792. What is the discount %?								
	Α	12%	В	15%	С	10%	D	8%	
5.	The cost of an article was ₹5000. The sales tax charged was 5%. What will be the bill amount								
	Α	₹ 5200	В	₹ 5100	С	₹ 5250	D	₹ 5400	
6.	Find the value of x , if $4x = 52^2 - 48^2$								
	A	400	В	4	С	100	D	16	
7.		g has 4 red balls an What is probability	-	ellow balls. A ball is deting a white ball?	rawı	n from the bag witho	out lo	ooking into the	
	Α	1	В	0	С	1/2	D	1	

8.	The value of $\left[\frac{3}{5} \times \frac{-2}{7}\right] + \left[\frac{3}{5} \times \frac{3}{14}\right]$								
	A	<u>3</u> 60	В	$\frac{15}{14}$	С	$\frac{-3}{14}$	D	<u>2</u> 35	
9.	Find the perimeter of a triangle whose sides are $2x^2 + 3xy - 11y$, $x^2 + 11xy + 3y$ and $-x^2 - xy - y$.								
	A	$2x^2 + 13xy - 9y$	В	$x^2 + 11xy + 3y$	С	$-x^2-xy$	D	-3xy-y	
10.	A garrison of 300 men had food for 20 days. However, 50 men leave. Now the food will last:								
	A	26 days	В	24 days	C 120 days		D	18 days	
11.	The factorization of 12a ² b + 15ab ² gives								
	A	3a(4a+5b)	В	3ab(4a+5b)	С	12ab(a + b)	D	4ab(3a +5b)	
12.	Divide: $(25p^2 - 16)$ by $(5p + 4)$								
	A $25p + 16$ B $5p + 4$ C $5p - 4$ D						25 <i>p</i> + 4		
13.	Find: $(-36y^3) \div 9y^2$								
	A	4 <i>y</i>	В	-12 <i>y</i>	-12 <i>y</i> C -		D	-4 <i>y</i>	
14.	If the cost of 12 books is ₹ 450, then the cost of 16 books is:								
	A	₹ 615	В	₹ 500	С	₹ 600	D	₹ 650	
15.	The coordinate of a point at a distance of 5 units from the x-axis and 2 units from the y-axis is:								
	A	(2,5)	В	(5,2)	С	(5,5)	D	(2,2)	

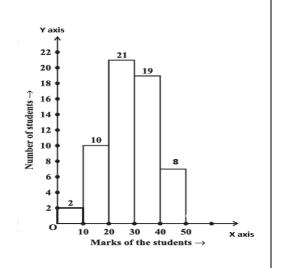
Q16.	Source based Question (5 Marks):					House rent Education for				
	perce	ning pie chart give ntage) on various g a month.		expenditure (in and savings of a fami	ly	Transport 5% Others 20% Savings Clothes 15% Clothes 10%				
I	On which item, the expenditure was maximum?									
	A	Transport	В	Food	С	others	others D			
II	Expenditure on which item is equal to the total savings of the family?									
	A	Rent	В	Clothes	С	Education for children	D	Transport		
III	If the monthly savings of the family is ₹ 3000, what is the monthly expenditure on clothes?									
	A	₹ 5000	В	₹ 20000	С	₹ 13000	D	₹ 17000		
IV	What	is the amount spe	nt on	transport?						
	A	₹ 100	В	₹ 1000	C	₹ 7000	D	₹ 3000		
V	Amou	ınt spend on rent a	and cl	othes together is:						
	A	₹ 1000	B ₹ 4000 C			₹ 2000	D	₹ 10000		
	S	Section B: Short A	nswe	r Questions (Type – 1)) of	2 marks each (Q.17	7 to (Q.21)		
17.	Find the value using property: $\frac{-4}{5} \times \frac{18}{7} \times \frac{15}{16} \times \frac{-21}{9}$									
18.	A table marked at ₹15,000 is available for₹14,400. Find the discount given and the discount per cent.									
19.	Find i	nterest and amour	nt to b	oe paid on ₹ 50000 at	5%	per annum after 2	years	5.		
20.		ck needs 34 litres a distance of 300		esel for covering 204	km.	Find the diesel red	quire	d by the truck to		
21.	Find the area of a rectangle whose length is $(2x + 7)$ units and breadth is $(x - 5)$ units.									

	Section C: Long Answer Questions (Type – 1) of 3 marks each (Q.22 to Q.27)								
22.	Simplify the following using suitable identities:								
	$\left(\frac{2}{5}p+3\right)\left(\frac{2}{5}p+3\right)$								
23.	Insert any four rational numbers between $\frac{-3}{4}$ and $\frac{-4}{5}$								
24.	A train is moving at a uniform speed of 75 km/hour.								
	(i) How far will it travel in 20 minutes? (ii) Find the time required to cover a distance of 250 km.								
	(ii) This the time requires to cover a distance of 250 km.								
25.	The factorization of $mx + my + nx + ny$ is								
26.	Jency bought an air cooler for ₹ 4400 including a tax of 10%. Find the price of the air cooler before VAT was added.								
27.	Plot the following points on the graph sheet: A(0, 0), $B(4, 5)$, $C(6, 2)$, $D(0, -2)$								
	Section D: Long Answer Questions (Type – 2) (Q.28 to Q.33) & Case study (Q.34 &35) of 4 marks each								
28.	Represent $\frac{-2}{7}$, 0, $\frac{1}{7}$, $\frac{3}{7}$, 1 on a Number line.								
29.	Find CI on ₹ 26100 for 2 years at 10% per annum compounded annually.								
30.	If x and y vary directly find the values of A, B, C and D								
	x 27 A 9 C 18								
	y 63 7 B 14 D								
31.	Verify that $(13ab + 4b)^2 - (13ab - 4b)^2 = 208ab^2$								
32.	The number of days a city received a rainfall in different years.								
<u> </u>	Year 2004 2005 2006 2007 2008								
	Days 25 20 15 10 5								
	Draw the graph for the above given table of values with suitable scales on the axes. Is it a linear graph?								
33.	The population of a city was 20,000 in the year 1997. It increased at the rate of 5% p.a. Find the population at the end of the year 2000.								

34. Case Study-1

The adjoining graph shows the distribution of the marks obtained by 60 students in Mathematics test. Observe the histogram and answer the questions given below:

- a) What is the size of the class intervals?
- b) Which class has the highest frequency?
- c) What is the upper limit of the class interval 30-40?
- d) How many students secured marks between 20 to 40 marks?



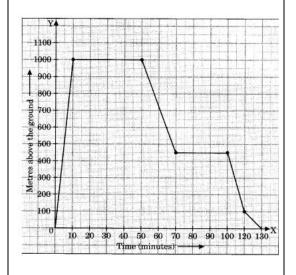
35.

Case Study-2

Holidays started, Pradeep planned a trip with his friends from Delhi to Manali.

The given graph shows the flight of an aero plane.

- (i) What are the scales taken on x-axis and y-axis?
- (ii) How long was the plane in level flight?
- (iii) What was the speed of the aero plane while rising?
- (iv) How long did the whole flight take?



ANSWERS

1	В	2	С	3	С	4	Α	5	С
6	С	7	В	8	С	9	Α	10	В
11	В	12	С	13	D	14	С	15	Α
16	i-B, ii-C, iii-D, iv-A, v-B	17	$\frac{63}{2}$	18	₹600, 4%	19	SI=₹5000, A=₹55000	20	50 <i>l</i>
21	$2x^2 - 3x - 12$	22	$\frac{4}{25}p^2 + \frac{12}{5}p + 9$	23	$\frac{-151}{200}, \frac{-152}{200}, \frac{-153}{200}, \frac{-154}{200}$	24	25km, 3hr20min.	25	(x+y)(m+n)
26	₹ 4000	27		28		29	₹ 5481	30	A=3, B=21, C=6, D=42
31		32		33	23153 people	34	a)10, b)20- 30, c)40, d)40	35	a) x-10min., y- 100m b)40+30=70 c)1000m/min d)2hrs.10min.