



INDIAN SCHOOL AL WADI AL KABIR

Final Examination Revision Worksheet (2024-25)

Class: VII

Sub: MATHEMATICS

Max Marks: 80

Instructions:

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

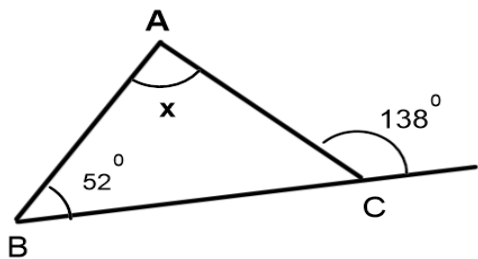
Section B: Short Answer Questions of 2 marks each (Q.17 to Q.21)

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 Questions (Q.34 & Q.35) of 4 marks each.

Section A: Multiple Choice Question (Q.1 to Q.15) of 1 mark each

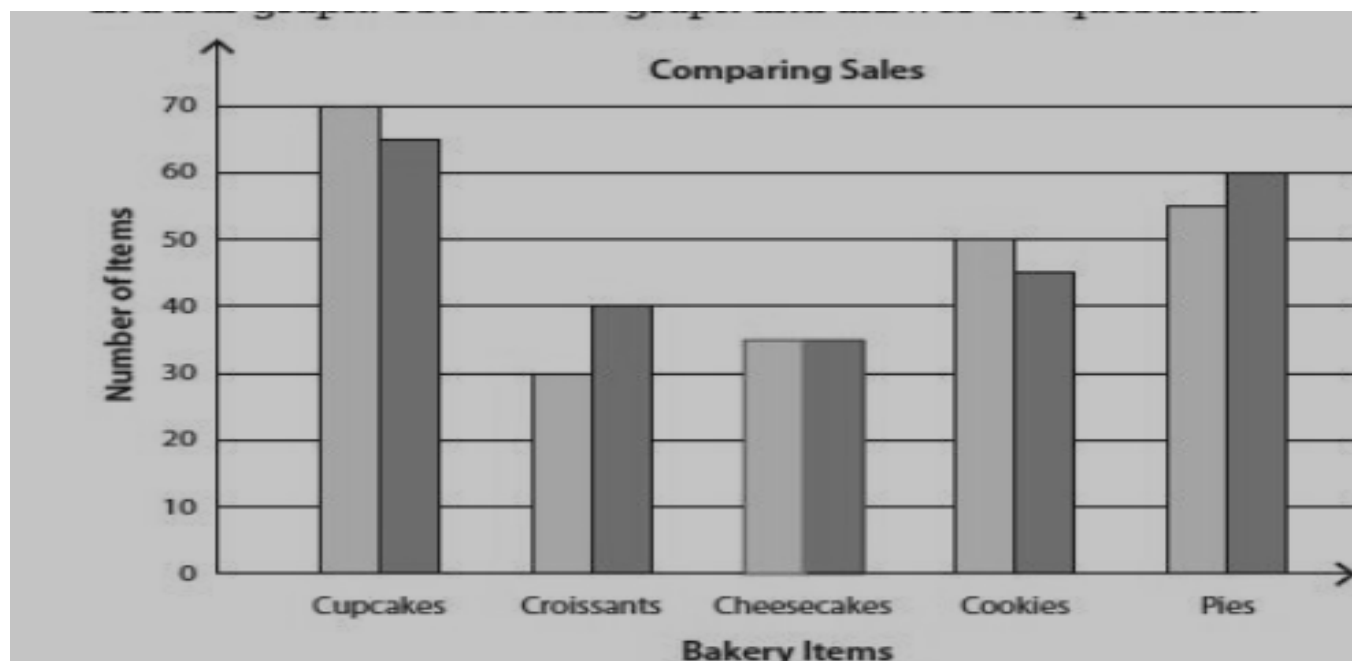
1.	The height of the triangle with base 12cm and area 99cm^2 :							
	A	16.5cm	B	33cm	C	25.5cm	D	13cm
2.	In given figure ,the value of x is :							
								
	A	82°	B	86°	C	75°	D	52°
3.	The range of 35,27,11,58,29,15,48 is:							
	A	23	B	11	C	47	D	58
4.	Alina secured 72% of marks in an examination. If she scored 360 marks, the maximum marks is:							
	A	500	B	450	C	600	D	400
5.	The coefficient of the term containing x^2 in $-5xy + 12y - 3x^2$ is:							
	A		B	$-3x$	C	-3	D	$-5y$

		-5						
6.	The diameter of a circle with circumference 88cm is:							
	A	14cm	B	28cm	C	21cm	D	7cm
7.	The value of $(2^0 + 3^0) \times 7^0$ is							
	A	0	B	1	C	2	D	12
8.	Amit bought a scooter for ₹20,000 and sold at ₹21800. The profit /loss% is:							
	A	9% loss	B	11% profit	C	9% profit	D	11% loss
9.	The value of expression $m^2 - 2m$ for $m = (-3)$							
	A	3	B	15	C	-15	D	-12
10.	In a right-angled triangle, one of the acute angle is 48° , the measure of other acute angle is:							
	A	48°	B	50°	C	42°	D	80°
11.	Simplify by laws of exponents: $(2^3)^5 \times 2^2$							
	A	2^{17}	B	2^{10}	C	2^{13}	D	2^{30}
12.	Deepak borrowed ₹6500 from his friend for 2 years at the rate of 6% per annum. The amount of to be paid at the end of 2 years is							
	A	₹7820	B	₹7880	C	₹7082	D	₹7280
13.	The standard form of 258790000 is:							
	A	2.5879×10^4	B	25.879×10^8	C	0.25879×10^9	D	2.5879×10^8
14.	The standard form of $\frac{42}{-56}$ is:							
	A	$\frac{6}{-8}$	B	$\frac{-3}{4}$	C	$\frac{-6}{8}$	D	$\frac{3}{4}$
15.	The sum of $(-5pq)$, $7pq$ and $(-3pq)$ is:							
	A	$-15pq$	B	$-pq$	C	pq	D	$9pq$

Q16.

Source based Question -5 Marks

Mrs. Sunder owns bakery stores in two places A and B. She compares the sales of both stores. The double bargraph shows the sales of various item in stores. Based on the information answer the following questions



I The total number of cupcakes sold in both stores:

A 140 **B** 155 **C** 135 **D** 130

II The ratio of number of cookies sold in store A and Store B is

A 8:9 **B** 10:9 **C** 9:10 **D** 5:9

III How many more cupcakes sold than Cheesecakes in both stores?

A 75 **B** 60 **C** 65 **D** 55

IV In which store more, items sold?

A Store B **B** Store A **C** Both are Same **D** Can't say

V If the cost of a Croissant is ₹7 and cost of a pie is ₹8, The money collected by selling both items in both stores together is

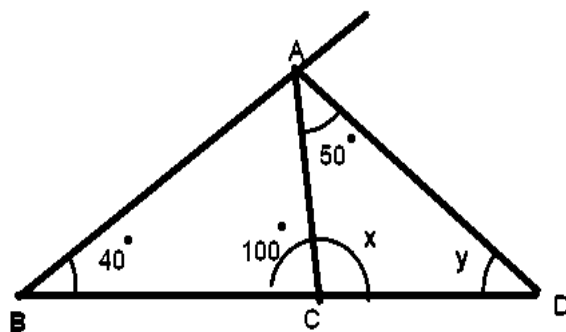
A ₹4110 **B** ₹1440 **C** ₹1401 **D** ₹1410

Section B: Short Answer Questions (Type – 1) of **2** marks each (Q.17 to Q.21)

17. Show the factors of the expression $5m^2 + 3mn + 2n$ by factor tree diagram.

18. Find the value of $\{(5^2)^3 \times 5^3\} \div \{(5^2)^4\}$

19. From the given figure, find the values of x and y (Give reasons)



20. Find area of a circular field of radius 3.5m. ($\pi = \frac{22}{7}$)

21. Peter buys a cycle for ₹1800 and sells it for a profit of 15%. find the Selling price of the cycle.

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

22. The hypotenuse of a right-angled triangle is 61 cm. If one of the remaining two sides is 11 cm, find the length of the other side.

23 Simplify: $(-1)^{100}\{125^3 \div 25^4\}$

24. The weekly pocket expenses of 11 students in a class is given below:

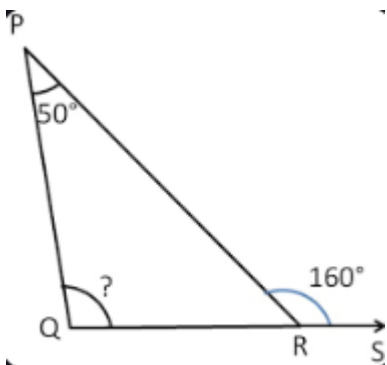
54, 80, 60, 45, 48, 112, 67, 84, 43, 72, 105

I. Find the mean expenditure.

II. Find the median of the data.

25 The length of the diagonals of a rhombus are 20 cm and 48 cm. Find the perimeter of the rhombus.

26. Subtract $3x^2 + 5x - 18$ from $10x^2 - 2x + 25$

27	Represent $\frac{3}{5}$, 0, $\frac{1}{5}$ and $\frac{-2}{5}$ on a number line.															
Section D: Long Answer Questions (Type – 2) (Q.28 to Q.33) & Case study (Q.34 &35) of 4 marks each																
28.	The following data shows the export and import (in million dollars) of some selected countries in a particular year. <table><tr><th>Country</th><th>USA</th><th>UK</th><th>GERMANY</th><th>JAPAN</th></tr><tr><th>Export</th><td>650</td><td>300</td><td>400</td><td>250</td></tr><tr><th>Import</th><td>750</td><td>150</td><td>450</td><td>300</td></tr></table> Draw a double bar graph to represent the given data.	Country	USA	UK	GERMANY	JAPAN	Export	650	300	400	250	Import	750	150	450	300
Country	USA	UK	GERMANY	JAPAN												
Export	650	300	400	250												
Import	750	150	450	300												
29.	 i) Find the measure of $\angle PRQ$ ii) Find $\angle Q$. iii) State the property of triangles used.															
30.	Evaluate: $\frac{2^4 \times 3^5 \times 16}{3^3 \times 36}$															
31.	Insert 3 rational numbers between $-\frac{4}{5}$ and $-\frac{2}{3}$.															
32.	Simplify and find the value at $x = -1$ and $y=1$ $2(3x- 2) +3y +3 - 2y$															
33.	Suhas bought a sports kit for ₹5400 and he sold it at a profit of 20%. i) Find the selling price of the kit. ii) If he made a loss of 5%, find the selling price.															

34.	Case Study-1 The marks obtained in a Math class test by Nithin, vivek and Kanishk are given as $3p - 1$, $2p + 4$ and $p + 8$ respectively. I) Find the total marks obtained by all the three students in terms of p . II) Find the total marks when value of $p = 2$ III) Who scored maximum marks if $p = 3$	
35.	Case Study-2 Leena's mother ordered a new door mat for her front door. The shape of the mat is semicircular with straight side of the mat of length 84 cm. i) Find the perimeter of the mat. ii) If she ordered 2 doormats of the same measures, what will be the total area covered by both the semicircular mats together?	

ANSWERS					
Q1.	A	Q2.	B	Q3.	C
Q4.	A	Q5.	C	Q6.	B
Q7.	C	Q8.	C	Q9.	B
Q10.	C	Q11.	A	Q12.	D
Q13.	D	Q14.	B	Q15.	B
Q16	I C, II B III C, IV A V D	Q17		Q18	5
Q19	$x = 80^\circ$ $y = 50^\circ$	Q20	38.5 sq.m	Q21	₹2070

Q22	60 cm	Q23	5	Q24	I. 70 II. 67
Q25	104 cm	Q26	$7x^2 - 7x + 43$	Q27	Number line
Q28	graph	Q29	i) 20° ii) 110° iii) Exterior angle property	Q30	64
Q31	$\frac{-119}{150}, \frac{-118}{150}, \frac{-117}{150}$	Q32	-6	Q33	i) ₹6480 ii) ₹5130
Q34	I) $6p+11$ ii) 23 iii) Kanishk	Q35	i) 216 cm ii) 5544 sq.cm		