INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics

Final Examination Revision Worksheet (2020-2021)

OBJECTIVE TYPE (1 Mark)

Q.1 Choose which of the following expressions is a binomial.

A	6xy	**B**	4mn + 6	**C**	pq – p^2 – q^2	**D**	12abc

Q.2 The coefficient of x in the term – 4xy is

A	– 4y	**B**	– 4	**C**	– 4x	**D**	4y

Q.3 Add $2x + 15$ and $4x - 5$

A	2x + 10	**B**	x+ 10	**C**	2x + 20	**D**	6x + 10

Q.4 Subtract 16ab – b – 8a from 25ab + 2b + 4a

A	–9ab –3b +12a	**B**	9ab + 3b +12 a	**C**	9ab –3b–12	**D**	9ab + 12b

Q.5 Find the value of the expression 2a + 3(b – a) when $a = -1$, $b = -2$.

A	–6	**B**	–4	**C**	– 5	**D**	5

Q.6 Which of the following represents a pair of like terms?

A	– 2xz, – 2 x^2z	**B**	pq, – 3 pq	**C**	18 xy, 18 x^2y^2	**D**	15abc, 15ab

Q.7 Write an algebraic expression for the given situation, using variables, constants and arithmetic operations: 'the product of m and n subtracted from three times their sum'

A	3m + n –mn	**B**	m + 2n –mn	**C**	mn –3(m+n)	**D**	3(m +n) -mn

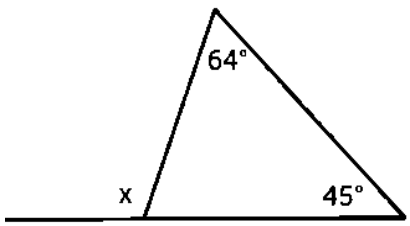
Q.8 The term containing x as a factor in the given expression 2z – 5xz is

A	– 5xz	**B**	–5z	**C**	2z	**D**	5xz

Q.9 The value of the expression pq – p + 5 when p = 2 and q = 2 is

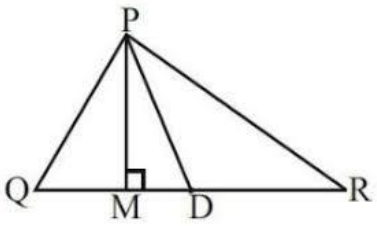
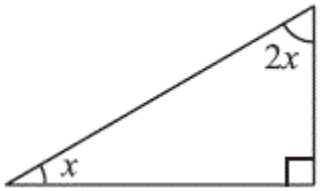
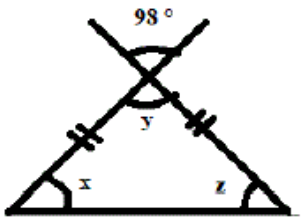
A	5	**B**	4	**C**	10	**D**	7

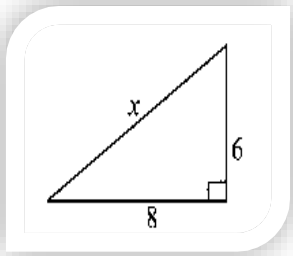
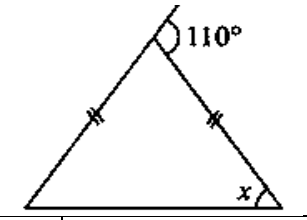
Q.10



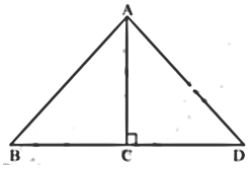
The value of the exterior angle x in the given figure is

A	100°	**B**	109°	**C**	110 °	**D**	20 °

Q.11	 In the given figure, if D is the midpoint of QR, which among the following statements is not true?							
	A	PM is the median and PD is the altitude of triangle PQR	**B**	PM is the altitude and PD is the median of triangle PQR	**C**	PM is perpendicular to QR	**D**	PD bisects QR
Q.12	 In the given figure, the value of x is							
	A	60 °	**B**	90 °	**C**	30°	**D**	40 °
Q.13	 The three angles of a triangle are x, y, z. The values of x, y, z are							
	A	x= 41°, y=41°,z = 98°	**B**	x=41°,y= 98°, z = 41°	**C**	x=y=z=60°	**D**	X = 98°, y = 98°, z = 12 °
	Fill in the blanks (1 mark each)							
Q.14	Is it possible to draw a triangle with sides 4 cm, 6 cm, 8 cm? (yes/no)_____.							
Q.15	The length of two sides of the triangle are 5 cm and 8 cm. The value of the third side will lie between 3 cm and _____.							
Q 16.	The triangle PQR is right angled at P. The longest side of triangle PQR is _____.							
	MCQ (1 Mark each)							
Q.17	The type of triangle in which one of the altitudes lie outside the triangle.							
	A	Acute-angled triangle	**B**	Right-angled triangle	**C**	Obtuse-angled triangle	**D**	Not possible

Q. 18	 The value of x in the given figure is							
	A	14	**B**	100	**C**	48	**D**	10
Q.19	 The value of x in the given figure is							
	A	65°	**B**	60°	**C**	45°	**D**	55°
Q.20	A ladder 5 m long is placed against a wall, reaching a window 3 m above the ground. The distance of the base of ladder from the wall is							
	A	15 m	**B**	8 m	**C**	4 m	**D**	34 m
Q.21	Express 128 using the exponential notation							
	A	2^7	**B**	4^7	**C**	4×2^7	**D**	7×2^7
Q.22	Simplify and find the value of $2^3 \times 3^4$							
	A	324	**B**	216	**C**	72	**D**	648
Q.23	The value of $4^5 \times 4^7$ in the exponential form is							
	A	16^5	**B**	2^{12}	**C**	4^{12}	**D**	4^{35}
Q.24	The value of $\frac{9^{11} \times 3^2}{9^5}$ in the exponential form is							
	A	3^7	**B**	12^7	**C**	9^7	**D**	9^8
Q.25	The value of $(2^3)^3 \div 2^4$ is							
	A	4	**B**	16	**C**	64	**D**	32

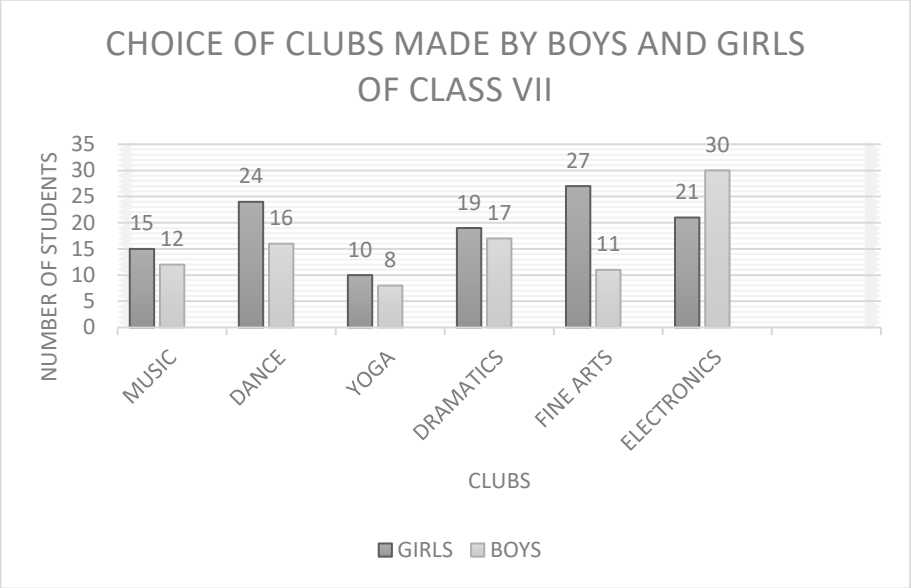
Q.26	The value of $10^0 \times 5^0 \times 2^1$							
	A	0	**B**	2	**C**	1	**D**	3
Q.27	Let A = x^2 + 2x -5 and B = 5x +5. Then A + B =?							
	A	7x	**B**	x^2 + 7x — 10	**C**	x^2 + 7x	**D**	x^2 + 7x — 10
Q.28	Simplify and find the value of a(1— b) + ab and find the value at a = 0, b = 2							
	A	2	**B**	3	**C**	0	**D**	1
Q.29	What should be added to 3x + 10 to get 4x							
	A	x	**B**	x + 10	**C**	2x — 10	**D**	x— 10
Q.30	Which of the following statements is true							
	A	The coefficient of x^2 in — 7 x^2 is — 7	**B**	The numerical coefficient of $6xy^2$ is xy^2	**C**	3xy and 3 yx are unlike terms	**D**	9m — m^2 + 7 is a binomial
Q.31	Two of the angles of a triangle are 40° and 60 °. Then the third angle is							
	A	100 °	**B**	180 °	**C**	90 °	**D**	80 °
Q.32	The standard form of 307865.245 is							
	A	30.7865245×10^7	**B**	3.07865245×10^5	**C**	3.07865245×10^7	**D**	0.307865245×10^7
Q.33	Express 125 × 160 as a product of prime factors only in exponential form							
	A	$5^4 \times 2^5$	**B**	$5^5 \times 2^5$	**C**	$5^4 \times 2^3$	**D**	$5^4 \times 2^4$
Q.34	Simplify and write in exponential form of $3^5 \times 3^2 \times 3^3$							
	A	3^9	**B**	3^7	**C**	3^8	**D**	3^{10}
Q.35	Simplify: $2^3 \times (-3)^3$							
	A	— 36	**B**	— 216	**C**	216	**D**	224
Q.36	Write in the standard form using exponents: 40785000000							
	A	4.0785×10^{10}	**B**	4.0785×10^4	**C**	4.0785×10^8	**D**	40.785×10^{10}

Q.37	Write the number form using the following expanded form: $7 \times 10^6 + 3 \times 10^4 + 1 \times 10^3 + 5 \times 10^1 + 9 \times 10^0$							
	A	731059	**B**	7031059	**C**	7031050	**D**	7031509
Q.38	Find the height of a parallelogram whose base is 8cm and area is 91.2cm^2.							
	A	729.6 cm	**B**	11.4 cm	**C**	99.2 cm	**D**	83.2 cm
Q.39	ΔABC is isosceles with AB = AD = 7.5 cm and BD = 12cm. The height AC from A to BD is 8 cm. Find the area of ΔABD.  							
	A	96cm^2	**B**	90cm^2	**C**	60cm^2	**D**	48cm^2
Q.40	A gardener wants to fence a circular garden of diameter 14m. Find the length of the rope he needs to purchase if he makes 2 rounds of fence.							
	A	22m	**B**	44m	**C**	88m	**D**	176m
Q.41	Find the cost of polishing a circular table-top of radius 7 m, if the rate of polishing is ₹10/m^2 .							
	A	₹440	**B**	₹1540	**C**	₹880	**D**	₹840
Q.42	Express the decimal 0.05 as percentage.							
	A	5%	**B**	50%	**C**	0.5%	**D**	0.05%
Q.43	Find 15% of 900 km							
	A	13500km	**B**	135km	**C**	60km	**D**	915km
Q.44	The price of a notebook increased from ₹50 to ₹65. Find the percentage of price increase.							
	A	15%	**B**	35%	**C**	30%	**D**	25%
Q.45	The selling price of a toy car is ₹900. If the shopkeeper made a loss of 10%, what is the cost price of the toy car?							
	A	₹800	**B**	₹1000	**C**	₹950	**D**	₹850
Q.46	A shopkeeper bought a chair for ₹250 and sold it for ₹275. Find the gain percentage.							
	A	25%	**B**	15%	**C**	20%	**D**	10%

Q.47	Out of 150 students in an examination centre, 30 are girls. What percent of the candidates are girls?							
	A	20%	**B**	30%	**C**	25%	**D**	75%
Q.48	Cost of one bag of flour is ₹36.25. what will be the cost of 10 bags of flour?							
	A	₹3.6250	**B**	₹362.50	**C**	₹3625.00	**D**	₹0.3625
Q.49	The cost of 40 litres of milk is ₹500. Find the cost of 1 litre of milk.							
	A	₹12.50	**B**	₹20000	**C**	₹540	**D**	₹42.50
Q.50	Find the reciprocal of $3\frac{5}{6}$.							
	A	$\frac{18}{5}$	**B**	$\frac{15}{6}$	**C**	$\frac{23}{6}$	**D**	$\frac{6}{23}$
Q.51	Find the area of a rectangle whose length is 2.52m and breadth is 3 m							
	A	$7.56m^2$	**B**	$0.84m^2$	**C**	$2.55m^2$	**D**	$2565m^2$
Q.52	Find $\frac{2}{5}$ of 20 kg							
	A	40 kg	**B**	4 kg	**C**	16 kg	**D**	8 kg
Q.53	Using decimals, express 5760g in kg							
	A	5.760kg	**B**	57.60kg	**C**	5760kg	**D**	0.5760kg
Q.54	A truck covers 16 km in 1 litre of diesel. How much distance will it cover using $5\frac{1}{4}$ litres of diesel?							
	A	80 km	**B**	84 km	**C**	4 km	**D**	74 km
Q.55	Ritu purchased $3\frac{1}{2}kg$ of tomatoes, $1\frac{1}{4}kg$ of potatoes and $2\frac{3}{4}kg$ of onions. What is the total weight of vegetables purchased by Ritu?							
	A	$6\frac{1}{2}kg$	**B**	$5\frac{1}{2}kg$	**C**	$7\frac{1}{2}kg$	**D**	$4\frac{1}{2}kg$

Q.56 CASE STUDY:

The students of Class VII have to choose one club from Music, Dance, Yoga, Dramatics, Fine arts and Electronics clubs. The data given below shows the choices made by girls and boys of the class. Study the double bar graph and answer the questions that follow:



i) How many students are there in Class VII?

A	210	**B**	116	**C**	94	**D**	100

ii) Which is the most preferred club by boys?

A	Fine arts	**B**	Dramatics	**C**	Dance	**D**	Electronics

iii) Which is the least preferred club by girls?

A	Music	**B**	Yoga	**C**	Dance	**D**	Electronics

iv) For which club is the difference between girls and boys the maximum?

A	Dance	**B**	Electronics	**C**	Fine arts	**D**	Dramatics

v) How many more girls prefer Dramatics than Yoga?

A	9	**B**	14	**C**	6	**D**	16

Q.57 CASE STUDY:

Numbers 1 to 10 are written on ten separate paper slips (one number on one slip) kept in a box and mixed well. One slip is chosen from the box without looking into it.

i) Find the probability of getting 5?

A	$\frac{1}{2}$	**B**	$\frac{1}{10}$	**C**	$\frac{1}{5}$	**D**	$\frac{5}{9}$

ii) Find the probability of getting a prime number?

A	$\frac{1}{2}$	**B**	$\frac{2}{5}$	**C**	$\frac{2}{9}$	**D**	$\frac{1}{5}$

iii) Find the probability of getting a multiple of 3?

A	$\frac{1}{10}$	**B**	$\frac{9}{10}$	**C**	$\frac{7}{10}$	**D**	$\frac{3}{10}$

iv) Find the probability of getting a number greater than 10?

A	0	**B**	1	**C**	$\frac{1}{10}$	**D**	$\frac{9}{10}$

v) Find the probability of getting a multiple of 2?

A	$\frac{2}{5}$	**B**	$\frac{3}{10}$	**C**	$\frac{1}{2}$	**D**	$\frac{7}{10}$

Q.58 The circumference of a circle whose radius is 7 cm is

	A	88 cm	**B**	44 cm	**C**	145 cm	**D**	156 cm

Q.59 The area of a parallelogram whose base is 15cm and height is 6 cm is

	A	$45cm^2$	**B**	$180cm^2$	**C**	$90cm^2$	**D**	$21cm^2$

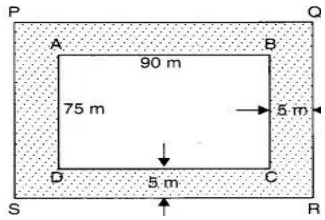
Q.60 8% children of a class of 50 like getting wet in the rain. How many children like getting wet in the rain?

	A	4	B	8	C	25	D	12

Q.61	We have a basket full of cucumbers, cauliflowers and brinjals. If 40% are cucumbers, 28% are brinjals, then what percent are cauliflowers?							
	A	23%	B	68%	C	32%	D	38%
Q.62	Convert each part of the ratio 1:4 into percentage							
	A	10%, 40%	B	20%, 30%	C	30%, 70%	D	20%, 80%
Q63	Find the amount to be paid at the end of 4 years if Principal = ₹90 at 10% p.a.							
	A	₹126	B	₹3	C	₹900	D	₹360
Q64	The fraction form 20% is							
	A	$\frac{1}{2}$	B	$\frac{1}{5}$	C	$\frac{1}{5}$	D	$\frac{1}{2}$
Q65	$\frac{4}{5}$ when expressed as per cent is							
	A	40%	B	50%	C	60%	D	80%
Q66	Find the gain percent if the cost price is ₹500 and selling price is ₹550							
	A	50%	B	55%	C	10%	D	40%
Q.67	**Fill in the blanks(1mark)**							
	Two cross roads of width 3m runs through the middle of the garden of length 100m and breadth 80m. a) The area of the garden is _____. b) The area of the crossroads is _____. c) Cost of paving the roads at the rate of ₹20 per $m^2$is _____.							

Q.68

A garden is 90 m long and 75 m broad. A path 5m wide is to be build outside and around it.



a) The area of the garden ABCD is _____.

b) Area of PQRS is _____.

c)Area of path is _____.

Answers

1	B. 4mn +6	**2**	A. $-4y$	**3**	D. 6x + 10	**4**	B. 9ab + 3b+12a
5	C. -5	**6**	B. pq, –3pq	**7**	D. 3(m+n) — mn	**8**	A. $-5xz$
9	D. 7	**10**	B. 109°	**11**	A. PM is the median and PD is the altitude of triangle PQR	**12**	C. 30 °
13	B. x=41 °, y=98°, z =41°	**14**	Yes	**15**	13 cm	**16**	QR
17	C. obtuse angled triangle	**18**	D. 10	**19**	D. 55°	**20**	C. 4m
21	A. 2^7	**22**	D. 648	**23**	C. 4^{12}	**24**	C. 9^7
25	D. 32	**26**	B. 2	**27**	C. $x^2 + 7x$	**28**	C. 0
29	D. x—10	**30**	**A.** The coefficient of x^2 in -7 x^2 is -7	**31**	D. 80°	**32**	B. 3.07865245×10^5
33	A. $5^4 \times 2^5$	**34**	D. 3^{10}	**35**	B. -216	**36**	A. 4.0785×10^{10}
37	B. 7031059						

38	B	**39**	D	**40**	C	**41**	B
42	A	**43**	B	**44**	C	**45**	B
46	D	**47**	A	**48**	B	**49**	A
50	D	**51**	A	**52**	D	**53**	A
54	B	**55**	C	**56**	i) a, ii) d, iii) b, iv) C v) a	**57**	i) b ii) b iii) d iv) a v) c
58	B	**59**	C	**60**	A	**61**	C
62	D	**63**	A	**64**	B	**65**	D
66	C	**67**	a) 8000 sq. m b) 531 sq. m c) ₹10620	**68**	a) 6750 sq. m b) 8500 sq. m c) 1750 sq. m		

Good Wishes for Exam