# **Model Paper Mathematics Grade 8**

#### **General Instructions:**

(a) {1,2,3,4,4,5}

**Square root of 121 is:** 

(c)  $\{1,3,2,4,5\}$ 

(a) 10

Q. No.7.

- 1) Write Roll Number in digits. (Figures) on Computerized Answer Sheet (The Sheet on which students mark the correct answer of objective questions). In the absence of your Roll No your scores would not be identified
- 2) Read each question carefully before answering. Attempt all questions. There is no choice in questions.
- 3) Students are not allowed to take the Question Paper/Answer Sheet out of the Examination Centre.
- 4) Mark the correct option of MCQ with sign ☑ with a Black Ball Point, on the computerized answer sheet. If a
- 5)

5)	without touchi Students are n teachers will so	udent marks two or more boxes, or one sign ☑ touches two boxes or the sign ☑ is within two boxes ithout touching anyone, the computer will score ZERO for such questions. udents are not allowed to mark in the boxes made against the open ended questions serial numbers. The achers will score your questions and then mark your score in the related box. If any two boxes are marked en computer will give you ZERO mark. The example of an objective question is given below.								
	Example: 1.	The symbol to	expres	s "numb	er 10" ir	n Roma	ın Numera	l system is.		
	Correct metho	(a) V	(b) M		(c) X		(d) L			
	correct metho	Q.1	(a) □	(b) □	(c) ✓	(d) □				
	Part-A (	Multiple Ch	oice C	uestic	ns)		Time A	llowed: 1 h	our 20 minu	ıtes
	stions carry ed. <b>If (-101)</b> -  (a) Refle	(40) Multiple qual marks. M + (101) = 0 the exive Property sitive Property	ark cor en prop (b)	rect opt perty of Symme	ion on c equalit tric Proj	omput t <b>y usec</b> perty	terized an		tempt all ques	stions.
Q. No.	2. Approxim (a) 4.23	mate value of (b)	<b>4.236</b> 4.24	•••••	correct (c) 4	_	2 decima	d places is: (d) 4.25		
Q. No.		An agent sold out an item in Rs. 20896 whose cost price was Rs. 21896, so he sold an i  (a) Profit (b) Loss (c) No Profit (d) No Loss					i <b>tem i</b> r			
Q. No.	(a) { }									
Q. No.	5. If in class (a) 6	s interval " 1- (b)		data 2, (c)		4 lies t	then freq (d) 2	uency of clas	s interval is:	
Q. No.	6. Set A = {	5,3,4,1,2} is ed	qual to:	:						

(b) {1,2,3,5}

(b) 11

(d) {1,1,3,2,4,5}

(c) 12

(d) 21

O. No.8.	Correct number	written in	binary	system (	(base-2)	) is:

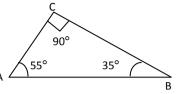
- (a) (101111)<sub>2</sub>
- (b) (11211), (c) (2110),
- (d) (12103)<sub>2</sub>

## Q. No.9. Set of first five natural numbers that are divisible by 2 and 5 is:

- (a) {10,20,30,40,50}
- (b) Set of first five natural numbers
- (c) {2,5,10,12,14}
- (d) {2,5,10,15,16}

## Q. No.10. Pair of complementary angles in the given triangle is:

- (a)  $55^{\circ}$ ,  $90^{\circ}$
- (b)  $35^{\circ}$ ,  $90^{\circ}$
- (c) 90°
- (d)  $55^{\circ}$ ,  $35^{\circ}$



## O. No.11. Aslam got an insurance policy of amount Rs.100,000 for 30 years. On Aslam's sudden death, his heirs received an amount in rupees, on which bonus amount was @ 4.2%. How much amount they received.

- (a) 4200
- (b) 104200
- (c) 100000
- (d) 142000

**Q. No.12. Solution of** 
$$\sqrt{\frac{64}{25}}$$
 is:

- (a)  $1\frac{1}{5}$  (b)  $1\frac{3}{5}$
- (c)  $3\frac{1}{5}$
- (d)  $2\frac{2}{5}$

#### Q. No.13. Median of ungroup data 62,90,71,83,75 is:

- (a) 62
- (b) 71
- (c) 75
- (d) 90

**Q. No.14. Select the solution of** 
$$(1000 - 7)^2$$

- (a) 993
- (b) 1986
- (c) 986049
- (d) 999951

## O. No.15. Select the solution of $(3a+4)^2$

- (a)  $9a^2 + 24a + 16$
- (b) 3a+12a+4
- (c)  $6a^2+12a+8$
- (d)  $9a^2 + 14a + 16$

# Q. No.16. Solution of subtraction of $7 - x - x^2$ from $x^3 + x^2 + x - 4$ is:

(a)  $x^3 + 3$ 

(b)  $x^3 + x^2 + x - 4$ 

(c)  $x^2 + 3$ 

(d)  $x^3 + 2x^2 + 2x - 11$ 

## **Q. No.17.** If $A = \{1,2,3,4,5\}$ $B = \{2,4,6,8,10\}$ then $A \cap B$ is:

(a)  $\{1,2,3\}$ 

(b)  $\{2,4,6\}$ 

(c)  $\{2,4\}$ 

(d)  $\{1,2,3,4,5\}$ 

## Q. No.18. If price of two English books is Rs 50.50 and price of one Urdu book is Rs. 19.10 then average price of each item in rupees is:

- (a) 69.60
- (b) 50.50
- (c) 34.80
- (d) 23.20

**Q. No.19. Solution of** 
$$x + 5 - (3x - \overline{2x - 3})$$
 **is :**

- (a) 8
- (b) 2
- (c) 3x + 4
- (d) 5x 2

C.I	Tally Marks	Frequency
15		8
610		3
1115		5

- (a) YALIII, III, YAL
- (b) IIIIIII, III, IIIII
- (c) NI NI, N, NII
- (d) IHHII, III, IIIII

Q. No.21. If a line segment m $\overline{AB} = 6$ cm is divided into ratio of 1:1 then length of each new line segment is

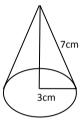
- (a) 6cm
- (b) 5cm
- (c) 3cm
- (d) 2cm

Q. No.22. In a right circular cone is of radius = 6cm, height = 4cm, then its volume will be:

- (a)  $24.17cm^3$
- (b)  $25.14cm^3$
- (c)  $150.86cm^3$
- (d) 542.57cm<sup>3</sup>

Q. No.23. Curved surface area of given right circular cone is:

- (a)  $21cm^2$
- (b) 66cm<sup>2</sup>
- (c)  $10cm^2$
- (d)  $200cm^2$



Q. No.24. Product of 2.25 and 1.3 is:

- (a) 4.000
- (b) 2.925
- (c) 3.550
- (d) 2.725

Q. No.25. Mean of the data 10,8,6,8,8 is:

- (a) 32
- (b) 10
- (c) 8

(d) 27

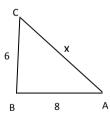
Q. No.26. In a given right angle triangle, value of x is:

(a) 10

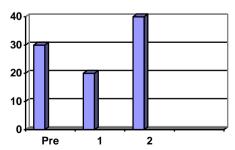
(b) 14

(c) 2

(d)48



Q. No.27. Graph shows strength of students in each class of a school, total number of students in these classes are:



(a) 20

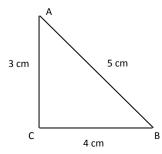
(b) 90

(c) 30

(d) 40

Q. No.28. Area of triangle of given vertices is:

- (a)  $6cm^2$
- (b)  $36cm^2$
- (c)  $12cm^2$
- (d)  $19cm^2$



Q. No.29.	No.29. Volume of sphere of radius 6 cm is:								
	(a) $36\pi cm^3$	(b) $108  \pi  cm^3$	(c)	$200 \pi cm$	<sup>3</sup> (d) 28	$8 \pi cm^3$			
Q. No.30.	No.30. In the following perfect square expression the missing term is:								
	()-12x+9								
	(a) $4x^2$	<b>(b)</b> $16x^2$	(c)	$x^2$	(d)	$2x^2$			
Q. No.31.	If value of Motor paid @ 10% is:	cycle is Rs.54	1000 then in	case of its	s insurance, a	amount of first prem	ium		
	•	(b) Rs 5400	(c)	Rs 540	(d) I	Rs 54000			
Q. No.32.	If base area of co	ne is 18 cm² a	nd its heigh	t is 6 cm t	then its volun	ne is			
	(a) 108cm <sup>3</sup>	(b) 36cm <sup>3</sup>	(c)	6cm <sup>3</sup>	(d) 3	cm <sup>3</sup>			
Q. No.33.	If written price o (a) Rs 20	<b>f an item is R</b> (b) Rs 1500			on @ 5% on (d) Rs 75	the item is:			
Q. No.34.	If 4,8∈Q and 4 < 8 then -5 < 0∈Q such that 4(-5) > 8(-5) property used, is:  (a) Trichotomy Property  (b) Transitive Property  (c) Multiplicative Property  (d) Additive Property								
Q. No.35.	Length of side of (a) 10.3	a square of an (b)	<b>rea 107m² (i</b> 10.4	<b>n m) is:</b> (c) 10.	.5	(d) 10.6			
Q. No.36.	6. Five men have 20 kg food sufficient for 7 days. In this statement inverse proportion exi								
	between: (a) men and food	(b) fo	od and days	(c) m	nen and days	(d) men, food and	l days		
Q. No.37. Factorization of $x^2 + 8x - 20$ is:									
	(a) (x+10) (x-2) (c) (x-10) (x-2)		(b) (x-10) ( (d) (x+10)(						
Q. No.38.	Amount of income tax of a person @ $10\%$ whose annual income is Rs125000 while amount of rebate is Rs 100000 will be:								
	(a) Rs. 250	(b) Rs	s. 2500		(c) Rs. 350	(d) Rs. 350	0		
Q. No.39.	Number of classe taken as 10	s formed from	n data 45,65	,80,96,80,	,75,56,96,62,7	8 if size of class into	erval is		
	(a) 5.1	(b) 51	(c)	10	(d) 6				
Q. No.40.	Value of y from s	imultaneous l	linear equat	ions 2x+3	8y = 7, 2x + y =	3 is			
	(a) 1	(b) 4	(c)	2	(d) 8				