

## CLASS VIII SAMPLE PAPER MATHEMATICS

<u>SEC</u>	<u>TION A</u> :Answer	the following by	selecting the corre	ect alternative. (1 mark each)	10
1.	The additive inver	rse of $\frac{-7}{-10}$ is	·		
	a) $\frac{10}{7}$	b) $-\frac{7}{10}$	c) $-\frac{10}{7}$	d) $\frac{7}{10}$	
2.	a) $2x^5 + 1$ is linea	r equation in one b) xyz +1	variable. c) $a^2 + 1$	d) 2 +y	
3.	In the class interval a) 40	al 0-50 the mid va b) 25		d) 50	
4.	Which of the follo a) 27		a perfect square? c) 9	d) 8	
5.	$a^2 \times a^{22} \times a^{222} = \_$				
	a) $a^2$	b) a <sup>248</sup>	c) a <sup>44</sup>	d) a <sup>198</sup>	
6.	The formula for a	rea of a semicircle	e is		
	a) $\frac{1}{2}\pi r^2$	b) $\pi r^2$	c) $2 \pi r^2$	d) $\pi r + D$	
7.	$[5^2]^4 =$				
	a) 5 <sup>5</sup>	b) 5 <sup>8</sup>	c) 5 <sup>6</sup>	d) 1	
<u>SEC</u>	<u>TION B</u> Answer	• the following in	one word or a line	(1 mark each).	08
8.	Factorize: 6	6XY - 4Y + 6 - 9x		<b>x</b> 4 6 7 10 12	15

- 9. Observe the following table and find the unknown value.
- **10.** Check whether 287155 is divisible by 9 or not ?

cbse - guess

x
 4
 6
 7
 10
 12
 15

 y
 24
 36
 42
 60
 72
 \_\_\_\_\_

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**29.** Multiply:  $\left(\frac{x}{2} + \frac{y}{4}\right)\left(\frac{x}{2} - \frac{y}{4}\right)$ 

**30.** The diagonals of a rhombus are 16cm and10cm. Find its area. **<u>SECTION E</u>** Answer the following (4 mark each).

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- **31.** Plot the following rational numbers on a number line. (-6),  $\frac{1}{4}$ ,  $\sqrt{9}$ , -5.5,  $\frac{3}{-4}$  and  $\sqrt[5]{32}$ .
- **32.** The digits of a two digit number differ by three. If the digits are interchanged the new number is added to the original number, we get 143.Find the original number.
- **33.** Find the least number to be multiplied to 1008 to get a perfect square. Also find the square root.
- **34.** Find the square root of 576 by division method.
- **35.** Simplify:  $2^{10} \times \frac{3^5}{2^4} \times \frac{2^{-2}}{2^{10}} \times \frac{2^{-2}}{6^{-3}} \times \frac{2^5}{3^4} \times \frac{3^0}{6^4}$

## **SECTION F** Answer the following (5 mark each).

- **36.** Perimeter of a square garden is100m. A road 5m broad passes inside and around the border of the garden. Find the area occupied by the road and cost of paving tiles at the rate of  $Rs.55/m^2$
- **37.** Draw the graph with suitable scale using the following values and then answer the questions. The distance traveled by a car is given below.
  - a) How much distance did the car cover during the period 7.30 to 8am?
  - b) What was the time when the car covered 100 km from its starting point?

Time (in hours)	6 a.m.	7 a.m.	8 a.m.	9 a.m.
Distance (in Km's)	40	80	120	160

**38.** Information regarding famous comics read by students of a school is given below. Represent it by a pie chart.

Flavours	Percentage of students
Chandamama	40%
Vikram Vaital	35%
Bhootnath	20%
Manrake	5%

**39.** Information regarding no of employees and their ages is given in the following table. Prepare a histogram.

<b>Class interval</b>	10-20	20-30	30-40	40-50	50-60
Frequency	3	4	6	3	1

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20

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