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Kendriya Vidyalaya Sangathan Bengaluru Region

Summative Assessment-II- March 2014

C	Class: VIII Subject: Mathematics			Time: 2 ½ HRS		
S				Marks: 60		
<u>G</u> 1. 2. 3.	 All questions are construction All questions are construction paper The question paper Section A contains Section B contains Section C contains Section D consists Two graphs are to b 	<u>S</u> ompulsory. r consists of 4 sectio 8 questions of 1 ma 6 questions of 2 ma 8 questions of 3 ma of 4 questions of 4 n be attached.	ns A, B, C and D. rk each. rks each. rks each. narks each. marks each.			
			Section A			
1	When a die is thro	own, the probability	of getting a prime n	umber is		
	(a) $\frac{1}{2}$	(b) 1	(c) $\frac{1}{6}$	(d) -1		
2	The ratio of 5 m t	o 10 km is				
	(a) 1:5	(b) 1:2	(c) 2:10	(d) 1:5		
3	Volume of a cubo	a cuboid with length 5a , breadth 3a² and height 2 a⁴ is				
	(a) 30 <i>a</i>	(b) 30 <i>a</i> ⁷	(c)15 <i>a</i> ⁵	(d) 10 <i>a</i> ⁶		
4	A polyhedron hav	ing 8 vertices and 12	2 edges will have	faces.		
	(a) 4	(b) 8	(c) 6 (d)	2		
5	Area of a parallelo	ogram whose base is	15 cm and correspo	onding height 8 cm is		
	(a) 60 m ²	(b) 120 cm ²	(c) 60 cm ² (d) 120 cm²		
6	4 ⁻² =					
	(a) $\frac{1}{16}$	(b) $\frac{1}{4}$	(c) $\frac{-1}{16}$	(d) 16		
7	Common factor	of 4abc, 2a ² b,8ac is				

	(a) 4abc	(b) 2ab	(c) 8a	(d) 2a	
8	If 34y 5 is	is a multiple of 9, then y is			
	(a) 0	(b) 3 (c)	9 (d) 6		

Section B

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9 Add 3y( y- 4m+5n) and 4y(10n-3m+ 2y)
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- 10 Draw the side view and top view of a cylinder.
- 11 Find the value of $(2^{-3} x 2^2) \div 2^0$
- 12 Factorise $p^2 + 10p + 25$
- 13 Factorise $x^2yz + xy^2z + xyz^2$
- 14 Find the value of the letters in the following.

Section C

- 15 Anil got 10% increase in his salary. If his new salary is 1,54000, find his original salary.
- 16 Use suitable identity and evaluate 96×104
- 17 Draw the top view, front view and side view of the given solid



- 18 A wooden cuboidal box has the external dimensions 3.5 m, 2 m, and 1.5 m. All the sides of the box are to be painted. Find the area of the box that needs to be painted.
- 19 A machine fills 850 bottles of soft drink in 5 hours. How many bottles will it fill in 8 hours?
- 20 A school has 8 periods a day each of 45 minutes duration. How long would each period be if the school has 9 periods a day if the school hours remain the same?

21 Work out the following division

$$4yx(x^2 + 6x - 16) \div 2y(x + 8)$$

22 The table show the colours preferred by the group of people. Draw a pie chart showing the following information.

Colours	Number of people
Blue	18
Green	9
Red	6
Yellow	3
Total	36

Section D

- 23 I borrowed Rs 8000 from a bank. If the rate of interest is 10% per annum find the amount that I would pay after $1\frac{1}{2}$ years if the interest is compounded half yearly.
- A cuboid is of dimension 60 cm x 54 cm x 30 cm. How many small cubes of side 6 cm can be placed in the given cuboid?
- Plot the following points on a graph sheet.
 A(1,1) , B(2,2) , C(3,3), D(4,4)
- Weight of 20 students in a class in kilograms is as follows.
 40, 41, 43, 48, 49, 50, 54, 52, 54, 50, 53, 42, 48, 50, 48, 52, 53, 51, 52, 50
 Group the given data and represent it as a histogram taking class intervals 40-45, 45-50 and so on.