Name of Student:	Roll No.:	Maths/Class-8/EN	Л
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## Annual Assessment - March 2017 Mathematics Class-8

Maximum Marks: 80 Time: 150 Minutes Instructions: • All questions are compulsory. • Marks are given in front of each question. 1. A square can be called as 1 (a) A Rectangle (b) A rhombus (c) A trapezium (d) All of above 2. What can be the unit digit of the squares of a number 1 (a) 2 (b) 5 (c)7(d)33. (a-b)<sup>2</sup> can be written as 1 (a)  $a^2+b^2+2ab$ (b)  $a^2-b^2-2ab$ (c)  $a^2-b^2+2ab$ (d)  $a^2+b^2-2ab$ 4. Additive inverse of  $\frac{-5}{9}$  is ...... 1 (a)  $\frac{5}{9}$  (c)  $\frac{9}{5}$ 5. The coordinates of origin are ......... 1 (a)  $(\frac{5}{9}, \frac{9}{5})$ (b) (1, 1) (d)(1,0)(c)(0,0)6. If y+3 = -8, then the value of y is ......... 1 (a) 5 (b)-5(c) 11 (d) -117.  $X^8 \div x^2$  can be written as 1 (a)  $x^4$ (b)  $x^{10}$ (c)  $x^6$ (d) 4 8. Central angle of pie chart is ...... 1 (a)  $180^{\circ}$ (b) 60° (c)  $90^{\circ}$ (d)  $360^{\circ}$ 9. Standard form of the number 0.0001038 is ...... 1 (b)  $1.0 \times 10^{-4}$ (a) 1038 (d)  $1.038 \times 10^{-4}$ (c)  $1.038 \times 10^4$ 

<ul><li>10. The population of a country and t</li><li>(a) Direct proportion</li><li>(c) Neither (a) nor (b)</li></ul>	the area of land per person is in (b) Inverse proportion (d) Both (a) and (b)	1
	team starts the game what is the probability th	nat vour
team will start	, in the second of the second	1
(a) 1	(b) $\frac{1}{2}$	
	(b) $\frac{1}{4}$ (d) $\frac{1}{2}$	
(c) 2	(d) $\frac{1}{2}$	
12. The coefficient of $x^2$ in $3x^2y^3$ is		1
(a) 3	(b) 3y	
(c) 3y <sup>3</sup>	(d) 3xy	
13. How many measurements can de	termine a quadrilateral uniquely?	1
(a) five	(b) four	
(c) six	(d) two	
14. The Value of $8^3 \div 2^3$		1
(a) 4	(b) 64	
(c) 16	(d) 32	
15. From the following, which is three dimensional.		1
(a) rectangle	(b) cylinder	
(c) Triangle	(d) circle	
16. Represents the rational number	$\frac{-3}{2}$ on number line.	2
17. Solve the equation	-	2
2x-1 = 14-x		
18. Find the probability to get a head	, when a coin tossed once.	2
19. Draw a square of side 4.5 cm.		2
20. There are 15 boys in a class of 40	students'. Find the ratio of the number of boy	s to the
number of girls		2
21. Subtract :		2
$5xy+3yx^2$ from $4x^2y-3xy+4-2y^2$	Fr	aglish
22. The adjoining pie chart gives the examination by students in Hindi, Mathematics respectively. If total were 720. Then students obtained mathematics.	marks scored in an English, Science, Sanskrit and marks obtained by student	Science  60°  HIndi
22 Find the number of faces this six	on that number of ventions are Constanting	
25. Find the number of faces, it is given	en that number of vertices are 6 and number o	n euges are



25. Find the value of letters in the following

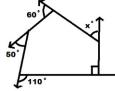


- 3 A
- +25 B 2
- 26. Find six rational number between -1 and 1



27. Find x in the given figure





28. Construct a rhombus BEND where BN = 5.6 cm and ED = 6.5 cm



29. Find the cube root of 10648 by prime factorisation method.

3

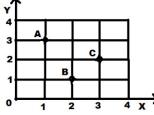
- 30. Find compound interest paid when a sum of Rs. 60,000 invested for one year at 12% annum compound half yearly. 3
  - 3

31. Factories  $P^4 - 81$ 

- 32. A farmer has enough food to feed 20 animals in his cattle for six days. How long would food last if there were 10 more animals in his catcle?
- 33. To makes a cuboid of sides 5 cm, 2 cm, 5 cm. How much such cuboids will be need to form a cube?

34. If 24x is a multiple of 3, where x is a digit, what is the value of x?

- 3
- 35. Write the coordinates of the points A, B and C from the given figure.
- 3



- 36. Find the least number which must be subtracted from the 3251 so as to get a perfect square. Also find the square root of the perfect square so obtained
  - 5

37. Solve the following

5

- (a+b) (2a-3b+c) (2a-3b) c
- 38. There are two closed boxes as shown in figure. Which box requires the lesser amount of material to make?

