SUMMATIVE ASSESSMENT -1.		SEPTEMBER-2017
Date : / / 2017	8 <sup>th</sup> Standard	Marks : 40
Time: 90 minutes	Mathematics	
I. choose the correct alternativ provided .	e and write the complete an	swer along with its letter in the space $1 \ge 4$
(1) The general form of 132 is		
(a) ( 2 x 100 )+ ( 3 x10 ) + (1 x 1)		(b) (1 x 100) + (3 x 10) + (2 x 1)
( c) ( 1 x 100 ) + (2 x 10 ) + ( 3 x 1	)	(d ) ( 2 x 100 ) + ( 1 x 10 ) + ( 3 x 1 )
(2) 23 <sup>2</sup> =		
(a) 729 (b) 629	(c) 429 (d) 529	
(3) Factors of $a^2 - b^2 =$		
(a) ( a+b)(a+b) (b) (a-b	(a-b) (c) (a+b)(a-b)	(d) (a+a)(b-b)
(4) The coefficient of ab in -9	ab is	
(a) 9 (b) -9 (c)	ab (d) -9a	
II.Fill in the blank places.		1 x 3 = 3
(5) If two angles are compleme	ntary , then their sum is ,	
(6) Add 7a <sup>2</sup> b and 12a <sup>2</sup> b ,		
(7) $(a + b)^2 = \dots$		
III.Answer the following		2 x 8 = 16
(8) Find the digits represente	d by the letters.	
2 A		
<u>X A</u>		
1 2 A		
(9) Using the numbers from	7 to 15 construct 3 x 3 mag	gic square
(10) Find the square root of	5929 by factorization.	

(11) Find the least positive integer with which you have to multiply 243 to get a perfect cube,?

(12) Solve 8x - 3 = 9 - 2x

(13) If the perimeter of a triangle is 22 cm and the sides are x + 4, 3x + 1 and 4x + 1. Find x. (14) Recognise the type of angles in the following figures ,.



(15) An exterior angle of a triangle is 100° and one interior opposite angle is 45°. Find the other two angles of the triangle ?

IV.Answer the following

3 x 3 = 9

 $2 \times 4 = 8$ 

(16) Factorise (a)  $a^2 + ab$  (b)  $a^2 + 5a + 6$ 

(17) Prove that " In any triangle , the sum of the three interior angles is 180°.

(18) Find the sum of  $1 + 3 + 5 + \dots + 51$ . (The sum of all odd numbers from 1 to 51) without actually adding them.

V Answer the following

(19) Use the Identity and compute . (a)  $(3a - 5b)^2$  (b) (3x + 4)(3x + 5).

(20) Draw the diagrams illustrating each of the following situations.

(a) Three straight lines which do not pass through a fixed points .

- (b) Straight angle .
- (c) Reflex angle.
- (d) A transversal cuts at two distinct straight lines.

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