## **GREENLAWNS SCHOOL. WORLI** Final Examination 2018 MATHEMATICS

Std: VI Date: 16.02.18

Question 1

Marks:[80] Time: 1 <sup>1</sup>/<sub>2</sub> hrs

[2]

[2]

[3]

[3]

## a. Solve: 3x - 4 = 1174.8+68.79-47.609 b. Simplify: c. Let $A=\{x/x \text{ is a letter in the word INCREASE}\}$ B= $\{x/x \text{ is a vowel}\}$ of the word INCREASE} and C={x/x is a consonant of the word INCREASE} Write A,B,C in the roster form i. ii. Write n(A), n(B), n(C)

d. Draw the reflection of the given figure on the grid paper attached to the guestion paper behind (detach the grid paper and attach it to the answer booklet)

Question 2

a.	Solve:		$\frac{2}{3} + \frac{9}{4}$	$\int of \frac{3}{5}$	$\div 1\frac{2}{3} \times$	$1\frac{1}{4}$	$-\frac{1}{3}$				[3]
		-		-	<i>.</i>			~		 	 -

- b. The area of a rectangular field is 3400m<sup>2</sup> and its length is 68m. Find (i) its breadth, (ii) the distance covered by a man in going 5 times around the field. [3] [2]
- c. State and draw the alphabets showing two lines of symmetry. d. Draw a line segment AB=8cm and draw a perpendicular bisector. [2]

Question 3

- a. Find the mean and mode of 7,14,5,13,10,7,8,8 [2] b. Construct angle ABC=60<sup>o</sup> and bisect it using compass and ruler. [2] c. Represent A, the set of all multiples of 12 below100by Roster method and set builder method. [2] d. There are 180 members of a committee. In a meeting  $\frac{3}{5}$  of them were present. How many members were absent? [2] e. Find the volume of a cube, one face of which has total surface area of 96cm<sup>2</sup> [2] Question 4 a. If one brick measures 25cm in length, 12cm in width and 8cm in height, how many such bricks will be needed to build a wall 3m long, 1.6m tall and 25cm thick? [2]
  - b. A man is 24 years older than his son. After 2 years, the man's age will be three times of that of his son. Find their present age. [3]
  - c. Solve:  $\frac{1.3 \times 2.4}{0.39} + \frac{0.8 \times 9 \times 1.5}{0.108}$ [3]



d. Observe the graph given below and answer the following guestions:

- (i) What information does the bar graph give?
- (ii) In which subject is the student very good
- (iii) In which subject is he poor?
- (iv) What are the average of his marks?

## Question 5

- a. Find the lateral surface area of a cuboid 15cm long, 12cm wide and 9cm high.
- [2] b. The table below gives the number of cars produced by Maruti Suzuki in last 5 years. Represent the data by a pictograph. [2]

				<u>L J</u>
Year	2006	2007	2008	2009
No. of cars	60	75	90	105

[3]

- c. Identify the following sets into: finite, infinite, null, singleton (write only answers)
- Т A={First prime minister of India}
- Ш B={Prime number having 5 as a factor}
- $C = \{x/x \text{ is an odd prime number}\}$
- IV D={Positive integer less than 0}
- V E={Polygons with five sides}
- VI F={2,4,6,8....72}

		-								
d.	d. Subhash completed $\frac{2}{5}$ of his maths homework on one day and $\frac{1}{3}$ of it									
Quest	the next day. If the number of problems not done are 8 then, how man problems did he have for homework?									
Question $\sigma$										
a.	<ol> <li>The area of a parallelogram is 24cm<sup>2</sup>. Find the perpendicular height between the two sides of length 4cm.</li> </ol>									
b.	Using a con	ig a compass and a ruler, draw a perpendicular XO on the line AB								
	from a point X outside line AB. [2									
C.	Solve:	$\frac{6(x-5)}{3}$ +-	$\frac{(5x+3)}{4} = 1$				[3]			
d.	Solve:	0.92x8 +(	).08x8					[1]		
		(16 3)	3 4							
е.	Solve:	$\left(\frac{10}{7} \times \frac{3}{4}\right)$	$\frac{-2}{2} \times \frac{-1}{5}$					[2]		
Quee	tion 7	(, ,	2 0							
Quesi		J 1	Э							
a.	Solve:	$1\frac{2}{5} \div 2\frac{1}{2}o_{j}$	f <u>2</u> 7				[2]			
b.	State the number of axes of symmetry for the following									
i.	Isosceles triangle									
ii.	Rhombus									
iii.	Kite									
iv.	Circle									
С	Using the co	ompass and	the ruler	construct a	nale ABC 9	$90^{\circ}$ and bise	ect it	[3]		
d.	The followin	ng table sho	ws the daily	v sale of el	ectric fans	in a shop fo	r 6	[0]		
days of a week. Represent the data using a bar graph										
Dav	Mon		Wed		Fri	Sat		[~]		
Sala	200	250	300	160	100	120				
Jaie	200	230	500	100	400	120				
Question 9										
а. ⊾	a. $5010$ U.0000 TISO.000 - 50.0 TIVU [2]									
D.	D. Time taken (in minutes) by 7 participants to complete a cycling face is									
	24,22,28,30,26,32,34. Find the range, mean and median of the given data. [3									

- c. When 9 is added to twice a number, the result is 3 more than thrice the number. Find the number. [3] [2]
- d. Find the area of the triangle whose base is 4cm and height is 3cm.

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Name:\_\_\_\_\_\_ STD: \_\_\_\_\_ Roll No. \_\_\_\_\_

Question 1: Attach this sheet to the answer booklet

