

SUMMATIVE ASSESSMENT - I MATHEMATICS SET - A

Class: VII	Maximum Marks: 90
Date: 7.9.2015	Time allowed: 3 hours

General Instructions:

	• ,	All the q	uestions are o	-	ns and 4 printed p	ages.			
1	l. a.	The sur	m of -40 and 4 -80	0 is	 iii. 80	iv. 40	1		
	b.	234 gra i.	ams when expr 234kg	essed in kilograms ii. 0.234 kg	is iii. 23.4kg	iv. 0.0234kg	1		
	c.		segment that jo d its altitude		midpoint of the opp	oosite side in a triangive iv. base	gle 1		
	d.			3°C and -17°C is _	III. Illediali	Iv. base	1		
	u.	i.	-26°C	ii60°C	iii. 60°C	iv 26°C	•		
	e.	The pre	edecessor of ze 0	ero is ii1	iii. 1	iv2	1		
	f.		6 are divided in Rs 5.5	nto 4 equal parts, es ii. Rs 6.50	ach part would be _ iii. Rs 6	iv. Rs 4.60	om		
	g.	On a nu	umber line 11/2	5 will lie between _	·		1		
		i.	0 and 1	ii. 1 and 2	iii. 2 and 3	iv. 0 and -1			
	h.	An ang	le is equal to i	ts complement. Wh	nat is its magnitude?	•	1		
		i.	45°	ii. 90 °	iii. 60 °	iv. 120°			
	i.	The angles of a triangle are in the ratio 1:1:2. What kind of triangle is it? i. An Obtuse angled ii. Right Isosceles triangle iii. Acute angled iv. Equilateral triangle.							
	j.	Which i.	one of the follows	owing is a vulgar find ii. $\frac{14}{20}$	raction?	iv. 24	1		
	k.	The mu		verse of -1 is	 iii 0	iv 2	1		

					or All NCERT Ders, Notes f	solutions, or Class 6 to 12	
<i>NcertHelp</i> © www.ncerthe	1				s in a cube are respec		1
		i.	6, 12, 8	ii. 2, 1, 1	iii. 6, 10, 9	iv. 8, 12, 8	
	m.	If a = b	then $a/x = ?$ bx	ii. –x	iii. b+x	iv. b/x	1
	n.		of the following of the	posite angles gles rior angles	s not equal when a t	transversal cuts 2	1
	0.	A trian	ngular prism ha 3	ii. 4	_ faces. iii. 5	iv. 6	1
	p.	If 27 = i.	7x - 1, then the 5	e value of x is ii. 4	·	iv. 6	1
	q.	If one i.	fourth of two f	ifth <mark>s</mark> of <mark>a numb</mark> er i ii. 360	s 36, the number is iii. 720	iv. 240	1
	r.	The me	edian of 1, 6, 4	, 8, 2, 9 is ii. 6	iii. 4.5	iv. 5	1
	s.		-01-	rectangular base a	nd side faces made o	of triangles is called a	1
		i. ii. iii. :	prism square pyrami rectangular py	ramid	eyı		
(C)	t.	The me	triangular pyra ean of first four 4	amid r prime numbers is ii. 4.25	iii. 6.5	iv. 4.5	m
	2.			ers is 52. If one mo 54. Find the include		ed the mean of new set	2
	3.	for eve	ery incorrect an		attempting the ques	•	2
	4.	The su	m of two conse	ecutive even numb	ers is 70. Find the n	umbers.	2
	5.	In the	given figure, fi	nd the value of x.			2
				$(17x \pm 4)^0$			

- **Moeriflelp 6. Com
 - There are 126 students in a class. The number of boys is 3/4th the number of girls. Find the number of girls.
 - 2

2

- 7. Draw the nets of
 - a. cylinder.
 - b. cube.
- 8. Frame two equations for the solution m = -5.

2

9. Represent $\frac{-3}{2}$ on a number line.

- 2
- 10. Rahul plants 8 saplings in a row in his garden. The distance between two adjacent saplings is ½ m. Find the distance between the first and the last sapling. Why is planting saplings essential for us? Mention two reasons.
- 2

2

- 11. A man goes 7m due West then 24m due North. How far is he from the starting point?
 - 3

12. Simplify the given mathematical expression using BODMAS. $83 - [29 - \{6 \div 3 - (6 - 9 \div 3) \div 3\}]$

- 3
- In a class of 45 students, $\frac{2}{5}$ of the total number of students play cricket, $\frac{1}{3}$ of the total number of students play football and the rest play tennis.
- 3

- a. How many students play cricket?
- b. How many students play football?
- c. What fraction of the total number of students play tennis?
- 14. 45 kg of rice costs Rs 900. If this rice was divided among 24 people, how much rice 3 will each person get? What was the cost of rice for each person?
 - 3
- 15. A man reared cows and buffaloes. The number of buffaloes was 7 more than one third of the number of cows. What was the total number of animals, if the number of buffaloes was 21?
- 3

16. In the given figure AB DC. Find x and y.



- 17. A 10m ladder is placed against a wall. The base of the ladder is 6m from the wall. How far up the wall does the top of the ladder reach?
 - 3

3

- 18. The heights of 5 friends (in cm) in a group are given as follows: 175, 172, 181, 167, 180
 - a. What is the mean height?
 - b. How many friends have height more than the mean height?
 - c. The friend who is 167 cm tall leaves the group. What is the new mean height of the remaining friends?

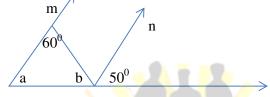
Ravi donates 0.2 part of his salary every month to a charitable trust. If his monthly salary is Rs 21,500, how much amount will he donate in one year? Which value does Ravi show by this gesture?

3

3

4

- 20. Name the following:
 - a. A pyramid with 5 faces.
 - b. A solid with 4 vertices.
 - c. A solid which has 1 face, no vertex, no edge.
- 21. The angles of a triangle are in the ratio 3: 4: 2. Find the measure of each angle of the triangle.
- The total cost of 3 tables and 2 chairs is Rs 745. If one table costs Rs 40 more than one chair, find the price of each.
- 23. Determine all the marked angles in the following figure in which m | n.



- 24. From a starting point A, Rahul walks $\frac{3}{4}$ km towards east and then $\frac{6}{7}$ km towards west to reach point C. Where will he be now from the starting point A?
- 25. A first aid kit has 2 ointments for Rs 11.35 each, 5 bandages for Rs 3.60 each, 3 antiseptic lotions for Rs 37.80 each and a pair of scissors for Rs 23.50. The box costs Rs 50.40. How many such first aid boxes can be purchased for Rs 4,560?
- 26. The given table shows marks obtained by Riya and Siya in their semester exams.

 Represent the given data on a double bar graph and find the average marks scored by both the girls and compare their performance.

	English	Hindi	Maths	Science	Social
					Science
Riya	80	85	85	90	75
Siya	75	75	85	80	85