Vikas Bharati Public School
Summative Assessment I (Session 2017-18)
Class: VII
Subject: MATHEMATICS SAMPLE PAPER

Time : 3 Hr **M.M : 80**

Note: 1. This question paper contains 4 printed pages
2. Instructions as per subject (if required)

1.		Find the value of P, if $p \times (-9) = 135$	1
2.		An angle is greater than 45°. Its complement will be : (a) Less than 45° (b) Equal to 45° (c) Greater than 45° (d) None of these	1
3.		If one angle of a triangle is 60° and the other two angles are in the ratio 1 : 2, then find the angles.	1
4.		Find the ratio of (in lowest from) : 30 days to 36 hours	1
5.		Find the value of : $\frac{-4}{5} \div (3)$	1
6.		If 3 : x :: 9 : 15 then find the value of x.	1
7.		Which is greater in the following numbers? $-3\frac{2}{7}$, $-3\frac{4}{5}$	2
8.		In the market cost of 1 dozen bananas are 48. Find the cost of 10 bananas.	2
9.		Mohini walks 1200m due East and then 500m due North. How far is she from her starting point?	2
10.		Find the values of x and y 	2
11.		Find the angle : (i) Which is equal to its complement. (ii) Which is equal to its supplement.	2
12.		An elevator descends in to a mine shaft at the rate of 7m/min. If he descent starts from 5m above the ground level, how long will it take to reach – 205m?	2
13.		If a=5, b= –6, then write and verify "Commutative property over addition".	3
14.	a)	Compute the Simple Interest on a sum of 900 for 5 years at the ratio of 6% per annum.	3
	b)	The cost price of 8 books is equal to the selling price of 6 books. Find the gain percent.	
15.	a)	If 2A = 3B = 4C, then find A : B : C = ?	3
	b)	If ratio 4:5 is equivalent to x:30, then find the value of x.	

c) Which is greater 3:5 or 5:7?

16. a) Find three rational numbers between $-\frac{17}{27}$ and $-\frac{11}{9}$. 3

b) Arrange $-\frac{7}{8}, -\frac{5}{6}, -\frac{3}{4}$ in the ascending order.

17. a) Is $\frac{-1}{2} < \frac{-1}{5}$? State true or false. 3

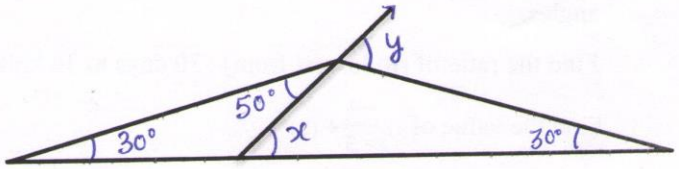
b) Write $\frac{-72}{81}$ in standard form.

OR

a) Find the absolute value of $\left|\frac{-9}{23}\right|$.

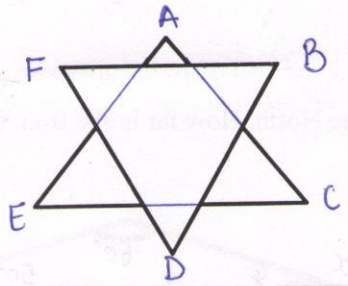
b) Mark $\frac{4}{9}$ and $\frac{-7}{9}$ on a number line.

18. a) Find the value of x and y. 3



OR

In figure find the value of $\angle A + \angle B + \angle C + \angle D + \angle E + \angle F$.



19. a) A building has 21m height. A monkey can climb 3m in one jump. In how many jumps, would the monkey reach at the top of the building? 3

b) The product of two integers is –160. If one of them is 20, find the other.

20. a) What should be added to $(-\frac{5}{8})$ to get $\frac{2}{9}$. 3

b) Find three rational numbers between 0 and 1.

21. If the ratio of angles of a triangle is 2:3:4, then find the measure of these angles. 3

OR

The sum of two angles of a triangle is equal to its third angle. Find the measure of the third angle.

22. A money lender wants $\frac{1}{5}$ of the amount loaned every year as interest. What will be the rate of 3

P.T.O

interest, if a farmer borrows ₹5000 for 1 year from the money lender?

OR

The weight of 45 folding chairs is 18 kg. How many chairs can be loaded on a truck having a carrying capacity of 4000 kg load?

23. Jaspal donates ($\frac{1}{5}$)th part of his monthly income and deposited ($\frac{1}{6}$)th part in the bank and expenditure the remaining income. 4

(a) Find the part of expenditure of his montly income.

(b) State two good habits of Jaspal mentioned on the basis of above questions

24. A ladder 25m long reaches a window which is 7m above the ground on one side of the street. Keeping its foot at the same point, the ladder is turned to the other side of the street to reach a window at a height of 24m . Find the width of the street. 4

OR

Two building of height 18m and 13m are built at a distance of 12m. Find the distance between the rooftops of the two buildings.

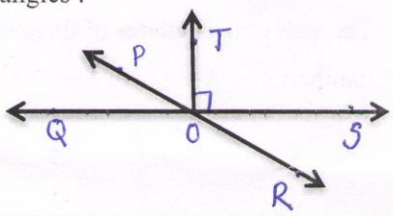
25. In the following figure name the following pairs of angles : 4

(i) Obtuse vertically opposite angles.

(ii) Adjacent complement angles

(iii) Euqal supplementary angles

(iv) Unequal supplementary angles



26. Fill up the blanks : 4

(i) Every triangle has at least ..... acute angles.

(ii) The longest side of a right angled triangle is called its .....

(iii) Median is also called ..... in an equilateral triangle.

(iv) The line segment joining a vertex of a triangle to the mid-point of its opposite side is called its.....

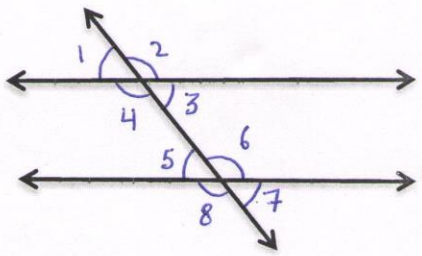
27. In the figure, identify a pairs of 4

(i) Corresponding angle

(ii) Vertically opposite angle

(iii) Exterior alternate angle

(iv) Co-interior angle



28. In a test, (+4) marks are given for every correct answer and (-2) marks for every wrong answer. Rohit answered all the questions and scored 68 marks. 25 of Rohit's answer were 4

correct. How many of the questions he attempted were correct?

OR

A certain freezing process requires that room temperature be lowered from 60ºC at the rate of 4ºC every hour. What will be the room temperature 18 hours after the process begins?

29. Circle the error in the following statements and rewrite the statement with correction. 4

(i) Sum of two sides of a triangle is greater than or equal to the third side.

(ii) When 0 is divided by an integer, the quotient is zero.

(iii) Two obtuse angles form a linear pair.

(iv) If measure of an angle is 90° then its supplement angle will be greater than 90°.

30. a) What principal will amount to 900 in 6 years at 10% Simple Interest? 4

b) In a city, 35% are females, 45% are males and remaining are children. What % are children?

OR

a) Prem bought 150 dozen pen- pencils at ₹ 20 a dozen. His overhead expenses were ₹ 200. He sold them at ₹ 2.40 each. What was his profit or loss percent?

b) The sum of the squares of three numbers which are in the ratio 2:3:4 is 725. What are the numbers?