

Summative Assessment 1(2014-15) Mathematics(SET A)

Date:16.9.2014

Class: VI

Time: 3 hours

M.M: 90 marks

General Instructions:

1. Read the question paper carefully and answer legibly.
2. All questions are compulsory.
3. The question paper consists of 31 questions divided into four sections A,B,C and D.
4. Section A comprises of 4 questions of 1 mark each, Section B comprises of 6 questions of 2 marks each, Section C comprises of 10 questions of 3 marks each, Section D comprises of 11 questions of 4 marks each.
5. Use of calculators is not permitted.

Section-A

Q.1	Convert Rs. 70 to paise. 7000 paise	1
Q.2	Using digits 0, 7, 8, 4 form a greatest four digit number. 8740	1
Q.3	Write first four multiples of 45. 45, 90, 135, 180	1
Q.4	What is the special names for two lines that never intersect each other ? Parallel lines	1

Section-B

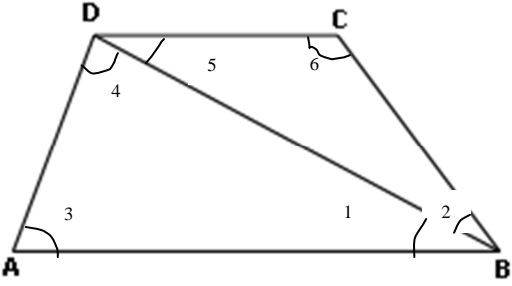
Q.5	Using distributive property find the value of $78 \times 8 + 78 \times 2$ $78 \times (8 + 2) = 78 \times 10 = 780$	2
Q.6	Arrange the integers in descending order: 18, - 45, -9, 7, 1, 2 $18 > 7 > 2 > 1 > -9 > -45$	2
Q.7	. Solve: a) $34 + (-98)$ $34 - 98$ -64 B) $-33 - (-56)$ $-33 + 56$ 23	2 0.5 0.5 0.5 0.5
Q.8	Find the sum of the smallest 4 – digit number and largest 3 digit number. Smallest 4 digit number = 1000 Greatest 3 digit number = 999 Difference = 1	2
Q.9	Draw a 5 -sided polygon. Name it and shade its interior. Drawing (1 mark), Shading ($\frac{1}{2}$ mark), Naming ($\frac{1}{2}$ mark)	2
Q.10	Adina bought a sweater worth Rs. 1899 and scarf worth Rs. 549.Find her total bill amount that she will pay after rounding off both sweater and scarf to the nearest hundreds. Cost of sweater after rounding off to nearest hundreds = Rs. 1900 Cost of scarf after rounding off to nearest hundreds = Rs. 500 Total Bill = Rs. 2400	2

Section-C

Q.11	Compare the following: $(-136) - (-48)$ _____ $(-148) - (-36)$ $-136 + 48$ _____ $-148 + 36$ $-88 > -112$	(1.5+1.5)
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Q.12	A shopkeeper sold 30 stools for ₹430 each and 30 tables for ₹670 each. Find the total money received by the shopkeeper? Cost of 30 stool = 30×430 Cost of 30 tables = 30×670 Distributive property Total cost = $30 \times 430 + 30 \times 670 = 30 \times (430 + 670) = 30 \times 1100 = \text{Rs. } 33000$	3
Q.13	A rope 45 m 60 cm long has been cut into 20 pieces. Find the length of each piece. Length of the rope = 45m 60cm = 45.60 m Length of each rope after cutting into 20 pieces = $45.60 \div 20 = 2.28$ m or 228 cm	3
Q.14	What is the smallest 4 digit number, which is divisible by 24, 36, 54. LCM of 24, 36 and 54 = 216 Multiples of 216 = 216, 432, 648, 864, 1080 Hence the smallest 4 digit no. divisible by 24, 36 and 54 is 1080.	3
Q.15	Grover Mithaiwala orders 19 liters of milk every day. Tomorrow he will be making small kheer cups for customers who will keep Shiv-Ratri fast. For 1 cup, 172 ml of milk will be used, if he wishes to make 156 cups how much extra milk will he order? Find out how much milk should he purchase tomorrow? Milk required for 156 cups = $172 \text{ ml} \times 156 = 26832 \text{ ml} = 26.832 \text{ l}$ Extra milk to be ordered = $26.832 - 19 = 7.832 \text{ l}$ Hence statement.	3
Q.16	Draw a circle with centre O and radius OA. (a) Identify two points in the exterior of a circle . (b) Draw a chord PQ and diameter QR. (c) Identify any sector and name it.	1 0.5 1 0.5
Q.17	The length, breadth and height of a room are 525 cm, 600cm and 675cm. Find the length of longest tape that can measure the three dimensions of the room exactly? HCF of 525,600,675 Finding HCF = 75 Statement + units	3 1 1 1
Q.18	Rewrite the following numbers with commas and their number names according to the system written. a) 45721806 (Indian System) 4,57,21,806 – four crores, fifty seven lakhs, twenty one thousand, eight hundred six. b) 32995644(International System) 32,995,644 – thirty two million, nine hundred ninety five thousand, six hundred forty four.	3
Q.19	a) Write all the factors of 120. 1,2,3,4,5,6,8.,10,12,15,20,24,30,40,60,120 b) Express the following as a sum of two odd primes: (i) $36 = 29 + 5$ (ii) $24 = 19 + 5$	2 0.5 0.5
Q.20	Use number line and add the integers: $(-6) + 8 + (-5) = -3$ Drawing the number line (½ mark) Showing the working 2 marks. Final Answer (½ mark)	3

<u>Section-D</u>		
Q.21	a) Draw a quadrilateral WXYZ. Draw its diagonals and name them. b) Write a pair of opposite angles. c) Write a pair of adjacent sides.	2 1 1
Q.22	Write number of faces, vertices and edges of the following: Triangular Pyramid F= 4 V=4 E=6 Square Pyramid F= 5 V=5 E=8 b) Write the name of regular Quadrilateral. Square	1.5 1.5 1
Q.23	a) Where will the hour hand of a clock stops if it starts: (i) From 6 and turn through 1 right angle 9 (ii) From 11 and turns through 3 right angles 8 b) Which direction will you face if you start facing (i) West and make half of a revolution clockwise. east ii) East and make $\frac{3}{4}$ of a revolution anticlockwise. south	(2+2)
Q.24	Find: a) $63 + (-10) + (-83) - (-9) = 63 - 10 - 83 + 9 = 63 + 9 - 10 - 83 = 72 - 93 = - 21$ b) $(-92) - (-18) + 22 + (-21) = - 92 + 18 + 22 - 21 = - 92 - 21 + 18 + 22 = - 113 + 40 = - 73$	(2+2)
Q.25	Using divisibility test, determine whether the number 14433881 is divisible by 11 or not? Is it divisible by 3? Sum of odd places digits = $1 + 8 + 3 + 4 = 16$ Sum of even places digits = $8 + 3 + 4 + 1 = 16$ Difference = 0 Since 0 is divisible by 11, 14433881 is divisible by 11. $1 + 4 + 4 + 3 + 3 + 8 + 8 + 1 = 32$ since 32 is not divisible by 3, 14433881 is not divisible by 3.	(3+1)
Q.26	In the figure given below: a) $\angle 3$ can be renamed using 3 letters as $\angle \underline{\hspace{1cm}}\text{DAB}_\underline{\hspace{1cm}}$ or $\angle \text{BAD}_\underline{\hspace{1cm}}$. b) The common arm of $\angle 1$ and $\angle 2$ is $\underline{\hspace{1cm}}\text{BD}_\underline{\hspace{1cm}}$. c) A pair of parallel line segments is $\underline{\hspace{1cm}}\text{CD}$ and AB. d) $\underline{\hspace{1cm}}\text{BD}_\underline{\hspace{1cm}}$ is the diagonal of Figure.	

	<p>e) Name $\angle 1$ and $\angle 5$. ABD And BDC</p> 	4
Q.27	<p>The traffic lights at three different road crossings change after every 48 seconds, 72 second and 108 seconds respectively. If they change simultaneously at 7 a.m., at what time will they change simultaneously again? Why do you think following traffic rules is important for us?</p> <p>Time after which the traffic lights will change simultaneously = LCM of 48, 72 and 108 = 432 seconds = 7 min 12 sec Time = 7 : 07 : 12 am It is important to follow the traffic rules because they are made for our safety only.</p>	(2+2)
Q.28	<p>a) Write a pair of twin prime numbers. 17 and 19</p> <p>b) Write any four integers less than -35. -36 -37 -38 -39</p> <p>c) Write all the integers between 6 and -6. -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5</p> <p>d) Add 165 and -90. 75</p>	4
Q.29	<p>Using suitable properties, find:</p> <p>a) 279×103 $279 \times (100 + 3)$ distributive $279 \times 100 + 279 \times 3$ $27900 + 837$ 28737</p> <p>(b) $51409 + 178 + 591 + 522$ $51409 + 591 + 178 + 522$ associative $52000 + 700$ 52700</p>	4
Q.30	<p>From one sheet of thick wood 6 pages of paper can be made. How many pages can be made with 75000 sheets of wood? If in one book there are 150 pages, how many books can be made with the help of these pages?</p> <p>No. of pages made from 75000 sheet of wood = $75000 \times 6 = 4,50,000$ No. of books made = $4,50,000 \div 150 = 3000$ Hence statement.</p>	4
Q.31	<p>A vegetable bag weighs 10 kg, having vegetables potato, tomato and onion. In the bag tomatoes weigh 4 kg 20g, onion weigh 2 kg 800g, find potatoes weight in the bag</p> <p>Weight of tomatoes = 4.020 kg Weight of onion = 2.800 kg Total weight of tomatoes and onion = 6.820 kg Weight of potatoes = $10 - 6.820 = 3.180$ Hence potatoes weigh 3 kg 180 g.</p>	4