

BLUE PRINT OF MATHEMATICS

WEEKLYTEST

CLASS-VI

| S.NO. | TYPE OF QUESTIONS | NO. OF QUESTIONS | MARKS | TOTAL |
|-------|--------------------|------------------|---------|-------|
| 1. | FILL IN THE BLANKS | 10 | 1/2MARK | 5 |
| 2. | MCQ | 5 | 1MARK | 5 |
| 3. | VSAQ | 4 | 1MARK | 4 |
| 4. | SAQ | 4 | 2MARKS | 8 |
| 5. | LAQ | 4 | 3MARKS | 12 |
| 6. | VLAQ | 4 | 4MARKS | 16 |

VLAQ consists of a value based question

Delhi Public School, Bahadurgarh

Summative Assessment 1 Sample Paper

Class – VI

Mathematics

Max Time : 3 hrs.

Marks: 90

General Instructions:-

Date

- 1) All questions are compulsory.
 - 2) There are 4 Sections. Section A has 4 questions. Section B has 7 questions. Section C has 6 questions. Section D has 7 questions.
 - 3) Use of calculators is prohibited.
 - 4) Marks are allotted along with the questions.
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SECTION- A

Q1. Multiple Choice Questions

(1mark each)

- i) Greatest negative integer is
a) 0 b) 1 c) -1 d) none of these
- ii) The measurement of a straight angle is
a) 90 b) 120 c) 180 d) 60

iii) In the number 983056 the digit 3 stands for

- a) 3 hundreds b) 3 ten thousands c) 3 thousands d) none

iv) A polygon in which all sides are equal

- a) rectangle b) square c) rhombus d) both b & c

v) $-10 + (-10) =$

vi) $a + \underline{\hspace{2cm}} = 0$

a) $-a$ b) a c) 0 d) none

vii) 989999 is the predecessor of which of the following number

a) 100000 b) 1000000 c) 980000 d) none

viii) Improper fraction for $2\frac{3}{8}$ is

a) $48/8$ b) $19/8$ c) $15/8$ d) none of these

ix) Equivalent fraction of $5/6$ is

a) $15/36$ b) $30/35$ c) $20/24$ d) $10/18$

x) The smallest whole number is

a) -1 b) 0 c) 1 d) none

Q2. Fill in the blanks:

(1mark each)

- i) The roman numeral of 65 is _____.
- ii) _____ is an identity for addition of whole numbers.
- iii) Every prime number except _____ is odd.
- iv) _____ is a factor of every number.
- v) A _____ is a chord passing through the centre of the circle.
- vi) Two lines are said to be _____ if they do not meet.
- vii) A _____ angle is larger than a straight angle.
- viii) A rhombus with four right angles is called _____.
- ix) In a proper fraction, the numerator is _____ than denominator.
- x) In $5/7$, 7 is _____.

Q3. Put sign $>$, $<$, $=$

(1mark each)

- | | |
|---|---------------------------------------|
| i) -9 _____ -88 | iii) -65 _____ -56 |
| ii) $\frac{6}{7}$ _____ $\frac{18}{21}$ | iv) $\frac{6}{8}$ _____ $\frac{9}{8}$ |

Q4. True or False:

(1mark each)

- i) 400 is a predecessor of 399.
- ii) The product of 57 and 63 is 2211.
- iii) Division by zero is not defined.
- iv) All even numbers are composite numbers.
- v) L.C.M is known as G.C.D.
- vi) A point determines a location.

SECTION-B

- Q5. Solve: $4\frac{2}{5} - 2\frac{1}{5}$ (2mk.)
- Q6. Subtract (i) (-4) from (-12) (ii) (65) from (-65) (1 + 1=2)
- Q7. Locate these on number line $\frac{5}{8}, \frac{1}{8}, \frac{11}{8}, \frac{4}{8}$. (2mk.)
- Q8. Add (i) (-234) + (-567) (ii) (45) + (-90) (1 + 1=2)
- Q9. Find the angle measurement between the hands of the clock: (1 + 1=2)
- i) 9 A.M. ii) 6 P.M.

Q10. Determine the greatest 3 digit number exactly divisible by 8, 10 and 12. (2mk.)

Q11. Find using distributive property- 988×101 (2mk.)

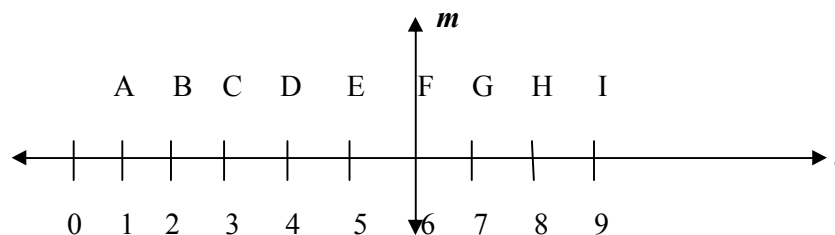
SECTION- C

- Q12. A student multiplied 7236 by 65 instead of multiplying by 56. By how much was his answer greater than the correct answer? Show multiplication also. (3mk.)
- Q13. The school canteen charges Rs.55 for lunch & Rs.45 for dinner. How much money did a child spend in 126 days? (3mk.)
- Q14. In a morning walk, three persons step off together. Their steps measures 80cm, 85cm & 90cm respectively. What is the minimum distance each should walk so that all can cover same distance in complete steps? (3mk.)
- Q15. Draw a circle of any radius and mark its centre, a segment and sector. (1+1+1=3mk.)
- Q16. Draw a square pyramid of any size. What is the measurement of each angle of a square? Tell how many edges and faces does it have? (1+1+1=3mk.)
- Q17. Jaidev takes $\frac{7}{4}$ minutes to walk across the school ground. Rahul takes $\frac{11}{5}$ to do the same. Who takes less time and by what fraction? (1+2=3mk.)

SECTION-D

Q18. Study the diagram in which l is perpendicular to m . (1+1+2=4mk.)

- i) $CE = \underline{\hspace{2cm}}$ iii) $CD = \underline{\hspace{2cm}}$
- ii) Identify any two line segments for line m is a perpendicular bisector.



Q19. Using divisibility test, (1+1+1+1=4mk.)

- i) Determine 10824 is divisible by 11
- ii) Determine 12159 is divisible by 6
- iii) Determine 216 is divisible by 4
- iv) Determine 3480 is divisible by 2

Q20. Solve and fill- i) $\frac{5}{8} = \frac{1}{4}$ ii) $\frac{1}{2} - \frac{1}{6} = \frac{1}{6}$ (2+2=4mk.)

Q21. Using suitable property, solve (i) $54789 \times 65 + 54789 \times 35$ (2+2=4mk.)
(ii) $4 \times 29245 \times 25$

Q22. Find the solution- a) $(-7)+4+(-45)-10$ b) $89-(-11)+22+(-50)$ (2+2=4mk.)

Q23. VALUE BASED QUESTION: Mom gave 3 oranges. Shubham ate $2\frac{2}{5}$ oranges. He threw rest of the oranges. How many oranges were thrown by Shubham? What value does this act depict? (3+1=4mk.)

Q24. Write all integers between (2+2=4mk.)
a) -70 and -60 in ascending order
b) 10 and -6 in descending order

X-----X-----X-----X-----X

DELHI PUBLIC SCHOOL, BAHADURGARH

Summative Assessment 2 sample paper

Mathematics (VI) (SET-1) Total
pages:04

Time: 3 hours

M.M.: 90

Date:

GENERAL INSTRUCTIONS

- Students are required to write their name, section and roll number on the question paper. Nothing else should be written on the question paper.
- All questions are compulsory.
- All answers must be correctly numbered as in the question paper in the answer sheet provide to you.
- Marks of all questions are mentioned alongside.
- Graphs should be tied in between the answer sheets.

Q. 1 Fill in the blanks.

(1*10 = 10)

- (a) The next number in the pattern 4,9,14,19 will be _____
- (b) The value of x in $X-4 = 9$ is _____
- (c) $3.008 + 7.5 =$ _____
- (d) A circle has _____ end points.
- (e) A kite has _____ lines of symmetry.
- (f) A data collected directly from the source is called as _____ data.
- (g) The decimal form of $27/5$ is _____
- (h) H has _____ lines of symmetry
- (i) The perimeter of a Regular hexagon = _____ X side
- (j) Distance covered along the boundary of a closed figure is called its _____

Q. 2 MCQs.

($1 \times 10 = 10$)

- (i) Twice a number X increased by 5 may be written as

(a) $2x$ (b) $5 + 2x$ (c) $-5 + 2X$ (d) x

Pag

e 1

- (ii) The solution of the equation $3m = 21$ is

(a) 7 (b) -7 (c) 18 (d) -6

- (iii) Which of the following is an algebraic equation

(a) $3x-7=2$ (b) $7x+1<15$ (c) $7x3 - 4 \times 5 = 1$ (d) $x-4 > 9$

- (iv) The ratio between 14 to 12 is

(a) 12:14 (b) 7:6 (c) 6:7 (d) none of these

- (v) Which of the following does not have a starting point?

(a) a line segment (b) a line (c) a ray (d) none of these

- (vi) An open polygon has _____ end points.

(a) 1 (b) 2 (c) 3 (d) none of these

- (vii) A rhombus has _____ equal diagonals

- [illegible]

Q. 3 Match the following.

$$(1 * 5 = 5)$$

- | | |
|-------------------|----------------|
| (a) 20° | Complete angle |
| (b) 190° | acute angle |
| (c) 90° | right angle |
| (d) 0° | reflex angle |
| (e) 360° | Zero angle |

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Q. 4 The area of a rectangular room which is 18m long is 270 sq.m find the width of the room.
(2)

Q. 5 The ratio between the length and width of a rectangle is 1: 3 if the width is 18cm ,find the length.

(2)

Q. 6 Draw a right angle and its bisector.
(1+1=2)

Q. 7 Construct a line segment of length 6.8 cm using ruler and compass.
(1+1=2)

Q. 8 Draw a line l and mark a point A not lying on it. Draw a line perpendicular to l through A.
(1+1=2)

Q. 9 Give expressions for the following.

(3)

- (a) 7 is multiplied by $-z$ (b) two-fifth of x (c) Y is reduced by 7

Q. 10 Ravi and Rani started a business and invested money in the ratio 2 : 3. After one year the total profit was Rs 40,000. What is the share of Ravi in profit? (3)

Q. 11 (a) Express 3 m 19 cm as metres using decimals

(1x3=3)

(b) Express 456 g as kg using decimals.

(c) Express 15 litres as ml using decimals.

Q. 12 Consider the letters of English alphabets, A to Z. List among them the letters which have:

(1x3=3)

a) Vertical lines of symmetry (Like A)

b) horizontal lines of symmetry (Like B)

c) no lines of symmetry (Like Q)

Q. 13 The following data shows the age (in years) of 20 students

7,1,3,8,5,5,9,5,8,6,5,4,3,3,2,8,6,8,9,10. Represent it using tally marks (3)

Q. 14 Draw a line segment CD. draw its perpendicular bisector. take any point P on the bisector drawn. Examine whether PC=PD or not?

(3)

Q.15 Complete the table and find the solution of the given equation : $3A - 2 = 34$ (4)

| | | | | | | |
|----------|---|---|----|----|----|----|
| A | 6 | 8 | 10 | 12 | 14 | 16 |
| $3A - 2$ | | | | | | |

Q. 16 A path measuring 12m X 4m has been covered by square tiles. the side of the square tile is 40 cm. find the number of tiles required to cover the path. (4)

Page 3

Q. 17 The number of shirts sold in a shop in 5 days is given below. Represent the information in the form of bar graph choosing an appropriate scale of your choice. (4)

| | | | | | |
|--------------------|--------|---------|-----------|----------|--------|
| Day | Monday | Tuesday | Wednesday | Thursday | Friday |
| No. of shirts sold | 250 | 430 | 550 | 175 | 600 |

Q.18 15 workers were paid the following wages on a particular day depending on the type of work done:

200, 350, 250, 100, 200, 150, 300, 250, 250, 400, 450, 350, 200, 300, 450

Prepare a frequency table and give the answers of the following questions:

(a) What is the range of the above data?

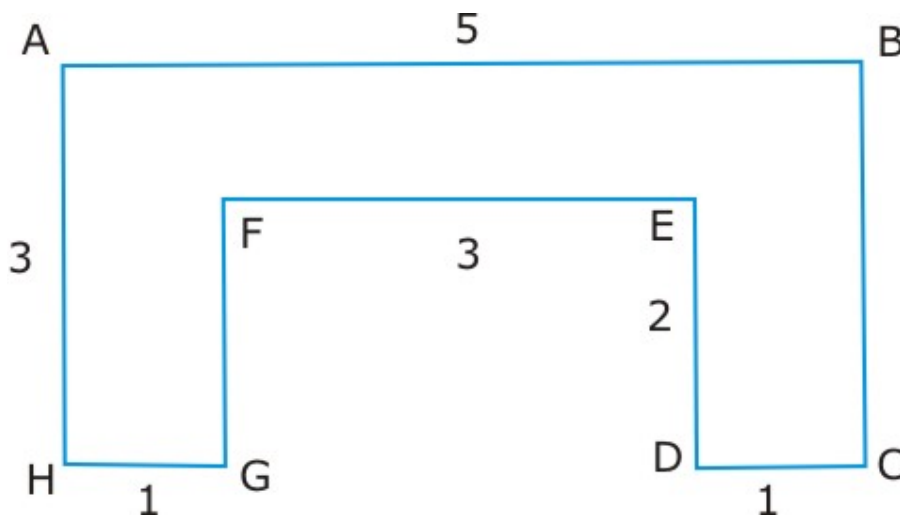
(b) How many workers are getting less than Rs.300?

(c) How many workers are getting the maximum wages?

(2+3=5)

Q.19 Find the area of the figure by splitting into rectangles and squares.

(5)



Q.20 Construct an angle of 120° and divide it into four equal parts. justify your construction.

(1x5=5)

Value based question

Q.21 Bhavika donates three-fifth part of the money she earned to a trust each month

(a) find the amount donated by her each month if her annual salary is Rs. 6,00,000

(2)

(b) find the ratio of the amount she earns to the amount she saves.

(2)

(c) What are the values depicted by her?

(1)

Q.22 Draw as many lines of symmetry as possible through the given letters.

(1x5=5)

(a) H

(b) Y

(c) M

(d) O

(e) I

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Summative Assessment 2

Mathematics (VI) (SET-2)
pages:05

Total

Time: 3 hours

M.M.: 90

GENERAL INSTRUCTIONS

Date:22.2.16

- Students are required to write their name, section and roll number on the question paper. Nothing else should be written on the question paper.
- All questions are compulsory.
- All answers must be correctly numbered as in the question paper in the answer sheet provide to you.
- Marks of all questions are mentioned alongside.
- Graphs should be tied in between the answer sheets.

Q. 1 Fill in the blanks.

(1*10 = 10)

- (a) If $3X = 18$ then $X =$ _____
- (b) The value of the variable which satisfies the equation is called its _____.
- (c) $17.008 - 13.6 =$ _____
- (d) A ray has _____ end points.
- (e) A line of symmetry divides a given figure into _____ identical parts.
- (f) A bar graph represents a given data in the form of _____.
- (g) The decimal form of $5/100$ is _____
- (h) An equilateral triangle has _____ lines of symmetry
- (i) The product of length and breadth of a rectangle will give its _____
- (j) The amount of surface enclosed by a closed curve is called its _____

Q. 2 MCQs.

(1*10=10)

(i) What is the coefficient of the variable in the expression $Z + 13$?

- (a) -1 (b) 13 (c) -13 (d) 1

(ii) A number is exceeded by 9. The correct statement will be

- Page 1

(a) $3p$ (b) $4y - 3$ (c) $5m + 3$ (d) $x - 4 > 9$

(a) 9:20 (b) 1:4 (c) 2:5 (d) 2:3

(a) 1.5 (b) 2 (c) 3 (d) none of these

(a) 1 (b) 2 (c) 3 (d) none of these

(a) 1 (b) 2 (c) 3 (d) 4

(a) 100 (b) 1000 (c) 100000 (d) 10

(a) radius (b) diameter (c) chord (d) circumference

(a) 0.8 and 0.82 (b) 0.82 and 0.84
(c) 0.83 and 0.84 (d) 0.8 and 0.84

(1*5=5)

- | | |
|-------------------|----------------|
| (a) 90° | Complete angle |
| (b) 60° | acute angle |
| (c) 145° | right angle |
| (d) 0° | obtuse angle |
| (e) 360° | Zero angle |

(2)

Q. 5 . There are 45 persons working in an office. If the number of females is 25 and the remaining are males, find the ratio of the number of males to number of females. (2)

Q. 6 Draw any line segment RS. Without measuring RS, construct a copy of RS. (2)

Q. 7 Draw an angle of 45° using ruler and compass. (2)

Q. 8 Draw a line m and mark a point Z on it. Draw a line perpendicular to m through Z. (2)

Q. 9 Give expressions for the following. (1x3=3)

(a) m decreased by 10 (b) 10 added to quotient of x and y (c) five times u

Q. 10 The cost of 12 kg. of Apples is Rs. 732. (1.5x2=3)

(a) Find the cost of 9 kg of apples.

(b) what quantity can be purchased with Rs. 1525?

Q. 11 (a) Express 750cm as m using decimals (1x3=3)

(b) Express 780 g as kg using decimals.

(c) Express 197 m as km using decimals.

Q. 12 Consider the letters of English alphabets, A to Z. List among them the letters which have:

a) Vertical lines of symmetry(Like A)

b) horizontal lines of symmetry (Like B)

c) no lines of symmetry (Like Q)

(1x3=3)

Q. 13 Shoe size of 20 students in a class are as follows:

5,6,6,4,7,5,8,7,4,6,6,4,7,7,6,6,6,8,7,8. Represent it using tally marks (3)

Q. 14 Draw a circle of radius 4 cm. Draw any two of its chords. Construct the perpendicular bisectors of these chords. Where do they meet?

(2+1=3)

Q.15 Complete the table and find the solution of the given equation : $4m - 9 = 7$ (4)

| | | | | | | |
|--------|---|---|---|---|---|---|
| m | 3 | 4 | 5 | 6 | 7 | 8 |
| $4m-9$ | | | | | | |

Q.16 Five square flower beds each of sides 1 m are dug on a piece of land 5 m long and 4 m wide. What is the area of the remaining part of the land?

(4)

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Q. 17 The number of Mathematics books sold by a shopkeeper on six consecutive days is shown below:

| Days | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday |
|----------------------|--------|--------|---------|-----------|----------|--------|
| Number of books sold | 65 | 40 | 30 | 50 | 20 | 70 |

Draw a bar graph to represent the above information choosing the scale of your choice (4)

Q.18 The marks in mathematics of 30 students are as follows:

77, 37, 84, 58, 60, 48, 62, 56, 75, 78, 50, 60, 44, 58, 52, 64, 98, 59, 70, 39, 78, 68, 53, 61, 48, 60, 55, 98, 67, 90.

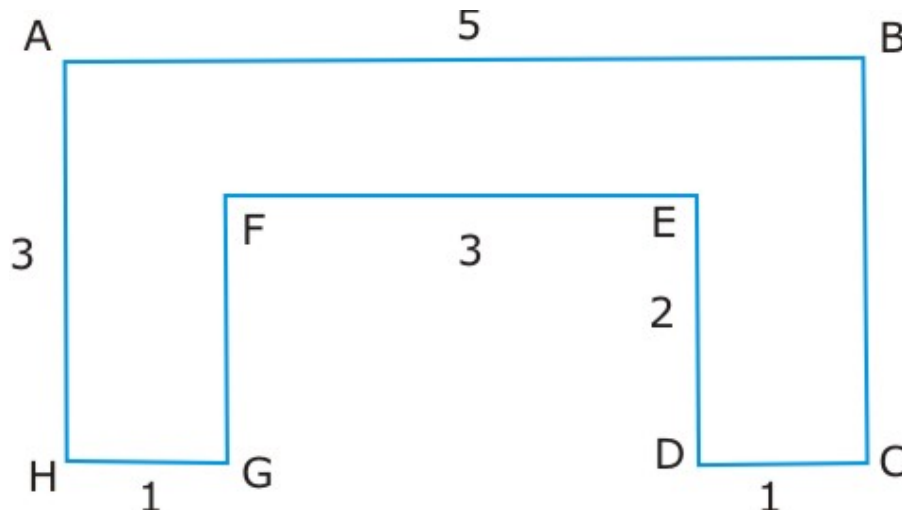
Arrange these marks in ascending order, 30-39 one group, 40-49 second group, etc. in a table by using tally marks.

(a) Find how many students are getting above 90 marks.

(b) Find how many students are getting 50 to 59 marks.

(c) If 40 is the pass marks how many have failed (2+3=5)

Q.19 Find the area of the figure by splitting into rectangles. (5)



Q.20 Draw a line segment $AB = 18$ cm. Using compasses, divide it into four equal parts. Verify by actual measurement
(5)

Value based question:

Q.21 Ishita uses 1 cup of oil, 2 cups of sugar and 3 cups of flour to make a cake for the orphan children on her birthday.
(4+1=5)

(a) Express the quantities of oil, sugar and flour as a fraction of the whole.

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4

(b) what are the values depicted in this question?

Q.22 Draw as many lines of symmetry as possible through the given letters.
(1x5=5)

(a) **B**

(b) **X**

(c)

M

(d)

O

(e) **E**

