

CLASS VI

GUESS PAPER-02

MATHEMATICS

Time: 2:00 hours

Total Marks: 50

General Instructions :-

1. All questions are Compulsory.
2. The question paper consists of 27 questions and it is divided into three Sections A,B and C.
3. **Section A** comprises of 10 questions carrying 1 mark each.
4. **Section B** comprises of 11 questions carrying 2 mark each.
5. **Section C** comprises of 6 questions carrying 3 mark each.
6. Question numbers 1 to 10 in section A are multiple choice questions where you are to select one correct option out of the given four.

Section A

(Questions 1 to 10 carry 1 mark each)

1. A cube whose faces are all of equal length and has number :
 - A. 6
 - B. 8
 - C. 4
 - D. 10
2. Triangle has side ?
 - A. 4
 - B. 5
 - C. 3
 - D. 7
3. Cuboid has faces, edges and vertices ?
 - A. 6,8,8
 - B. 7,5,6
 - C. 8,8,6
 - D.9,10,3

4. Name the types of triangle : side 7 cm, 8 cm 5 cm ?
A. Equilateral B. Isosceles C. Scalene D. Right
5. Name the types of ΔABC with $m\angle B = 90^\circ$?
(i) Right (ii) Isosceles (iii) Scalene (iv) acute
6. One complete turn is called one revolution is :
A. Complete angle
B. Right angle
C. Acute angle
D. Obtuse angle
7. $100000 - 1$? :
A. 100000
B. 45000
C. 99999
D. 4566
8. 10 hundred thousand means :
A. 1000000
B. 10000
C. 10000000000
D. 10000000000000000
9. The smallest even number is ? :
A. 1 B. 2 C. 3 D. 4
10. A number which has only two factors is called ___?
A. Prime B. Composite C. Even D. odd

Section B

(Questions 11 to 21 carry 2 mark each)

11. Write the greatest and the smallest 4- digit numbers by using any one digit twice?
(i) 3,1,6 (ii) 9,0,5 (iii) 9,8,7

OR

Write the greatest 4 digit number and express it in terms of its prime factors.

12. Place commas correctly and write the numerals :
(i) Seventy three lakh seventy five thousand three hundred seven.
(ii) Twenty three lakh thirty thousand ten.
(iii) Ninety eight million four hundred three thousand two hundred two.
(iv) Twenty two billion twenty two million six hundred six thousand three hundred one.
13. Population of Hari Nagar was 2,35,471 in the year 2003. In the year 2013, it was found to be increased by 1,45,659. What was the population of the city in 2013?
14. To stitch a shirt 2 m 20 cm cloth is needed. Out of 50 m cloths. How many shirts can be stitched and how much cloth will remain ?

OR

Find the equivalent fraction of $\frac{6}{10}$ having :

- (i) Denominator 20 (ii) numerator 30

15. What is the General rule of estimation. Solve the following with the help of General rule:
(i) 453×451 (ii) 4015×84008 (iii) 145×91
16. If the product of two whole number is zero, can we say that one or both of them will be zero ? justify through example.

OR

Find using distributive property :

- (i) 456×105 (ii) 156×91 (iii) 456×198

17. Write all the factors:

- (i) 15 (ii) 36 (iii) 50

18. Express each of the following numbers as the sum of three odd primes:

- (i) 21 (ii) 31 (iii) 61

OR

Write five pairs of prime numbers less than 20 whose sum is divisible by 5.

19. Using divisibility tests, determine which of the following numbers are divisible by 2, 4 & 8:

- (i) 4581 (ii) 41288

OR

Using divisibility tests, determine which of the following numbers are divisible by 5, 6 & 11:

- (i) 1350 (ii) 411400

20. Find the common factors of :

- (i) 4, 8, 12 (ii) 15, 20, 30 (iii) 50, 100, 200

OR

A number is divisible by both 5 and 12. By which other number will that number be always divisible ?

21. Draw any line segment say AB. Take any point C lying in between A and B. measure the lengths of AB, BC and AC. Is $AB = AC + CB$?

Section C

(Questions 22 to 27 carry 3 mark each)

22. Find the least number which when divided by 6, 15 & 21 leave remainder 5 in each case.

OR

Three tankers contain 806 litres, 868 litres and 930 litres of diesel respectively .
find the maximum capacity of a container that can measure the diesel of the three containers exact number of times.

23. (i) A piece of wire $\frac{14}{16}$ metre long broke into two pieces. One piece was $\frac{2}{8}$ metre long. How long is the other piece ?
(ii) Nandini 's house is $\frac{18}{20}$ Km from her school. She walked some distance and then took a bus for $\frac{2}{4}$ Km to reach the school. How far did she walk ?

OR

Find answers to the following. Write and indicate how you solved them :

- (i) Is $\frac{5}{8}$ equal to $\frac{7}{6}$? (ii) Is $\frac{9}{16}$ equal to $\frac{6}{7}$? (iii) Is $\frac{1}{2}$ equal to $\frac{7}{14}$?

24. (A) Reduce the following fractions to simplest form :

(i) $\frac{48}{100}$ (ii) $\frac{92}{120}$ (iii) $\frac{16}{36}$ (iv) $\frac{84}{96}$

- (B) (i) what fraction of a day is 12 hours ?
(ii) what fraction an hour is 80 minutes ?

OR

Add without using number line :

(A) (i) $(-15)+(-45)-85$ (ii) $(-84)-(-93)+(92)$ (iii) $(-217)+(-100)+154$ (iv) $(38)-(125)-(-569)$

(B) fill in the blanks with >, < or = sign :

(i). $(-3)+(-12)$ _____ $(-61)+(-45)$

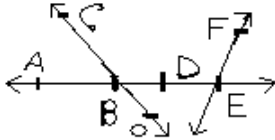
(ii) $(98)+(-54)$ _____ $(-47)-(-58)$

- 25.(i) Identify three triangles in the figure:
(ii) write the names of seven angles.
(iii) which two triangles have B as common .

26. use the figure to name :

- (i) line containing point E

- (ii) line passing through A.
- (iii) line on which O lies.
- (iv) Two pairs of intersecting lines.



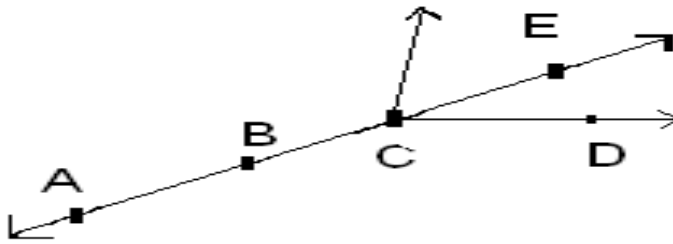
OR

Find the H.C.F and L.C.M of the followings :

- (i) 24,48,96 (ii) 12,48,72 (iii) 120,220,420 (iv) 50,100,200

27. Use the figure to name :

- (i) five points.
- (ii) A line .
- (iii) Four rays.
- (iv) Five line segments



OR

Rekha purchases two bags of fertilizer of weights 150 Kg and 138 Kg. find the maximum value of weight which can measure the weight of the fertilizer exact number of time