

**INTERNATIONAL INDIAN SCHOOL, DAMMAM
MIDDLE SECTION**

TERM1 -WORKSHEETS-(2024-25)

CLASS VI:

SUB: MATHS

CHAPTER 1: KNOWING OUR NUMBERS

I.CHOOSE THE CORRECT OPTION

1. The smallest 4-digit number formed using digits 6,0,2,9 without repetition.
a) 269 b) 2069 c) 2096 d) 9620
- 2.1 Crore=-----lakhs.
a) 10 b) 1000 c) 100 d) 1
3. The numeral for, Thirteen crore thirty nine lakhs sixty two is
a) 139062 b) 13390062 c) 13390062 d) 133900062
4. Rahul is a famous cricketer. He has scored 7210 runs so far and wishes to compete 10000 runs. How many more runs does he need?
a) 2690 b)2699 c)2790 d)2789
5. A Machine on an average manufactures 3225 pins a day. How many pins does it manufacture in the month of March 2024?
a) 96975 b) 99975 c) 99995 d) 90975

II.ASSERTION REASONING:

- 6. ASSERTION: 2125, 1952, 1592, 432 are arranged in ascending order.**

REASONING: Ascending order means arrangement of numbers from the smallest to the greatest.

- a) Both A and R are true and R is the correct explanation of A.
 - b) Both A and R are true but R is not the correct explanation of A.
 - c) A is true but R is false.
 - d) A is false but R is true.
- 7. ASSERTION: 80, 40,540 is written in Indian system of numeration.**

REASONING: In Indian system, commas are placed after every 3 digits from right.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

III.ANSWER THE FOLLOWING:

8. Insert commas suitably and write the number names according to Indian system of numeration.

- i) 49480941 ii) 789654321

9. Insert commas suitably and write the number names according to International system of numeration.

- i) 29012987 ii) 99900046

CASESTUDY

10) There were two friends Yukti and Harsha. Yukti was playing with her friend Harsha. They both decided to play with numbers. Yukti told Harsha you have to use the digits 3, 4, 5, 0, 6, 7 only.

(i) Make the greatest 6-digit number using these digits.

- (a) 765403 (b) 765430 (c) 764530 (d) 763450

(ii) Write the smallest possible 6-digit number using these digits.

- (a) 304,567 (b) 307,654 (c) 305,467 (d) 304,765

(iii) Find the difference between largest and smallest 6-digit number.

- (a) 402654 (b) 425786 (c) 405638 (d) 460863

(iv) Find the sum of greatest 6-digit number and the smallest 6-digit number using the given digits.

- (a) 1099997 (b) 899876 (c) 1069997 (d) 769805

11) The distance between the school and students house is 2km 375m.
Every day she walks both the ways

- Find the distance covered by her in 1 day?
- Find the distance covered by her in 5 days?
- How many kilometers distance she has covered in 5 days? 1 day?



CHAPTER 2: WHOLE NUMBERS

I. CHOOSE THE CORRECT ANSWER:

- The successor of 10999 is _____
a) 10998 b) 11000 c) 10000 d) 10900
- The smallest natural number is _____
a) 1 b) 0 c) 2 d) 3
- To find the predecessor of a number, we have to _____ 1 from the number.
a) Multiply b) Divide c) Add d) Subtract
- The number of whole numbers between 89 and 155 is _____
a) 66 b) 65 c) 64 d) 63
- Every whole number except _____ has a predecessor.
a) 0 b) 1 c) 2 d) none of these

ASSERTION AND REASONING:

6. Assertion (A): The number 60857 is on the left of 58867 on the number line.

Reason (R): On a number line as we move left from one number to another, the value
Of the number decreases.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

II. ANSWER THE FOLLOWING

- 7. Write next three natural numbers after 150999.
- 8. Write three whole numbers occurring just before 205092.
- 9. Find using number line: a) $3+6$ b) $9-4$ c) 3×4

CHAPTER-3: PLAYING WITH NUMBERS

I. CHOOSE THE CORRECT ANSWER:

- 1. The number of multiples of a given number is _____.
(a) None of these (b) infinite (c) 2 (d) finite
- 2. The sum of two odd and one even numbers is
(a) Even or odd (b) Odd (c) even number (d) Prime
- 3. What is the sixth multiple of 13?
(a) 78 (b) 65 (c) 52 (d) 91
- 4. 901153 is divisible by _____.
(a) 3 (b) 5 (c) 11 (d) 9
- 5. What are the numbers which are multiples of 2 called?
(a) Odd numbers (b) Even numbers (c) Prime numbers (d) Composite numbers
- 6. Assertion (A) – **The multiples of 6 are 6, 12, 18, 24...**
Reason (R) – **Every multiple of a number is greater than or equal to that number.**
 - a) Both A and R are true and R is the correct explanation of A.
 - b) Both A and R are true but R is not the correct explanation of A.
 - c) A is true but R is false.
 - d) A is false but R is true.

7. Assertion (A) – 45 is divisible by 9

Reason (R) –If the sum of the digits of a number is divisible by 3, then the number itself is divisible by 9.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

III. CASESTUDY

1) A florist had 200 roses, 180 marigold and 320 orchids with him. He was asked to make garlands of flowers with only roses or only marigold or only orchids each containing the same number of flowers.

(i) The prime factorization of 180 is

- (a) $2 \times 3 \times 3 \times 5 \times 5$ (b) $2 \times 2 \times 2 \times 3 \times 5$ (c) $2 \times 2 \times 3 \times 3 \times 5$ (d) $2 \times 2 \times 3 \times 5 \times 5$

(ii) The HCF of two co prime numbers

- (a) 1 (b) 0 (c) product of numbers (d) None of these

(iii) What will be the largest number of flowers he can join together without leaving a single flower?

- (a) 40 (b) 30 (c) 20 (d) 10

2) A well-organized library is a very important part of a school. As part of expansion of library, a new set of shelves were added. In the new shelves, three sets of English, Hindi, and Social books are to be stacked in such a way that all books are stored topic wise and the height of each stack is the same. The number of English books is 48 the number of Hindi books is 60 and the number of Social books is 96.

(i) LCM of 48, 60, 96 is

- (a) 120 (b) 480 (c) 363 (d) 630

(ii) HCF of 48,60,96 is

- (a) 33 (b) 24 (c) 12 (d) 16

(iii) Assuming that the books are of the same thickness, determine the number of stacks of English, Hindi, and Social books respectively.

- (a) 8,4,5 (b) 4,5,8 (c) 4,5,7 (d) 2, 7,9

Answer the following

1) Determine whether the number 1890164 is divisible by 2,4,6,8.

2) Find the HCF of 496 and 2080.

3) The circumferences of three tyres are 40, 50 and 70 cm. If they move simultaneously, then what is the least distance should they cover so that each wheel makes a complete number of revolutions?

4) The length, breadth and height of a cuboid are 85cm, 45 cm and 115 cm, respectively. Determine the length of longest rod which can measure the three dimensions.

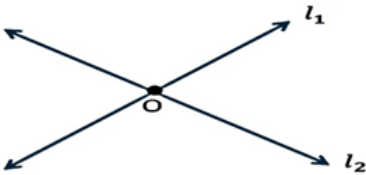
CHAPTER 4: BASIC GEOMETRICAL IDEAS

Choose the correct answer:

1. A ____ has two endpoints and a definite length.
a) Line (b) Line segment (c) point (d) none of these
2. A pair of lines that don't intersect at any point are called _____ lines.
a) Parallel b) intersecting c) concurrent d) perpendicular
3. A set of points that extends infinitely in both directions is called _____.
a) Line b) line segment c) ray d) none of these
4. A closed figure made up of entirely of the line segments is called a _____.
a) Polygon b) vertex c) angle d) none of these
5. How many lines can be drawn through one point?
a) One b) two c) zero d) infinite
6. A _____ is a portion of the line starting at a point and going in one direction endlessly.
a) Angle b) Ray c) vertex d) none of these.
7. Two distinct lines meeting at a point are called _____.
a) Collinear points b) parallel lines c) intersecting lines d) none of these

Direction: In the following questions, a statement of Assertion (A) is followed by a statement of Reason (R).

8. **Assertion (A):** Lines l_1 and l_2 are two intersecting lines

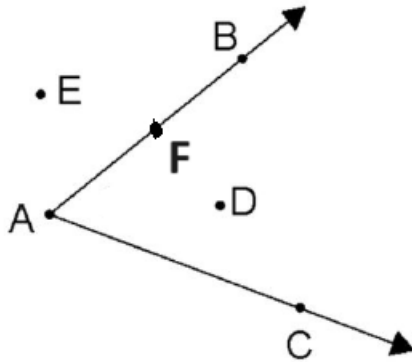


Reason (R) –If two lines have one common point, they are called intersecting lines.

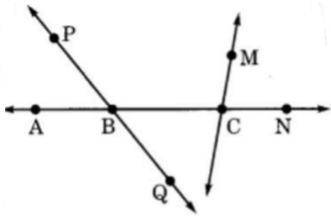
- a) Both A and R are true and R is the correct explanation of A.
 - b) Both A and R are true but R is not the correct explanation of A.
 - c) A is true but R is false.
 - d) A is false but R is true.
9. **Assertion (A) –A line contains a countless number of points.**
Reason (R) –The line extends indefinitely in both directions.
- a) Both A and R are true and R is the correct explanation of A.
 - b) Both A and R are true but R is not the correct explanation of A.
 - c) A is true but R is false.
 - d) A is false but R is true.
10. **Assertion (A) – A line segment has two endpoints.**
Reason (R) –A line segment can be extended indefinitely in both directions.
- a) Both A and R are true and R is the correct explanation of A.
 - b) Both A and R are true but R is not the correct explanation of A.
 - c) A is true but R is false.
 - d) A is false but R is true.

11. In the given diagram, name the point(s)

- a) In the interior of angle BAC
- b) In the exterior of the angle BAC
- c) On angle BAC



12. Use the figure to name:



- a) Line containing point M.
- b) Line passing through A.
- c) Line on which Q lies.
- d) Two pair of intersecting lines.

CHAPTER 5: UNDERSTANDING ELEMENTARY SHAPES

I. CHOOSE THE CORRECT OPTION:

1. The angle measure for one complete revolution is
a) 180° b) 360° c) 90° d) none of these
2. A right angle is _____ revolution.
a) $\frac{1}{2}$ b) $\frac{1}{4}$ c) $\frac{3}{4}$ d) 1
3. A reflex angle is larger than a _____
a) Acute angle b) obtuse angle c) acute angle d) straight angle
4. A quadrilateral with opposite sides equal and all angles 90°
a) Rectangle b) square c) parallelogram d) none of these
5. A quadrilateral with two pairs of parallel sides and no right angles
a) Parallelogram b) trapezium c) square d) none of these
6. A triangle in which one of the interior angles is 90° is called _____.
a) Right angled triangle b) scalene triangle c) acute-angled triangle d) none of these.

7. _____ is a polygon that has 6 sides and 6 angles.
 a) Octagon b) hexagon c) pentagon d) trapezium
8. When two lines intersect at a right angle, then the lines are said to be _____.
 a) parallel b) perpendicular c) bisector d) none of the these
9. Which among the following is the regular quadrilateral?
 a) Equilateral triangle b) rhombus c) trapezium d) square

II ASSERTION REASONING:

10. **Assertion (A) – An angle of 45 degrees is an acute angle.**

Reason (R) – An acute angle is an angle less than 90 degrees.

- a) Both A and R are true and R is the correct explanation of A.
 b) Both A and R are true but R is not the correct explanation of A.
 c) A is true but R is false.
 d) A is false but R is true.

11. **Assertion (A) – If two lines are perpendicular, then the angle between them is 180 degrees.**

Reason (R) – Perpendicular lines intersect to form right angles.

- a) Both A and R are true and R is the correct explanation of A.
 b) Both A and R are true but R is not the correct explanation of A.
 c) A is true but R is false.
 d) A is false but R is true.

12. **Assertion (A) – When the hand of a clock moves from one position to another, it turns through an angle.**

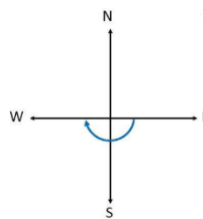
Reason (R) – The angle for one revolution is a complete angle.

- a) Both A and R are true and R is the correct explanation of A.
 b) Both A and R are true but R is not the correct explanation of A.
 c) A is true but R is false.
 d) A is false but R is true.

III. ANSWER THE FOLLOWING:

13. Which direction will you face if you start facing?

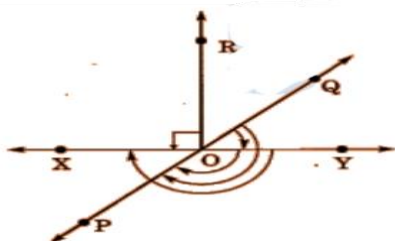
- a) East and make $\frac{3}{4}$ of a revolution clockwise?
 b) East and make $1\frac{1}{4}$ of a revolution anticlockwise?
 c) West and make $\frac{1}{2}$ of a revolution clockwise?
 d) West and make $1\frac{3}{4}$ of a revolution clockwise?



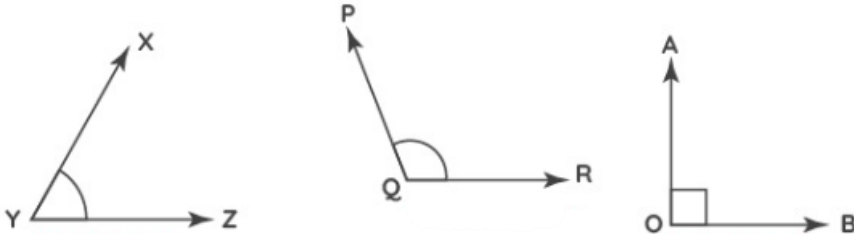
14. Through what angle measure does the hour hand of a clock turn through, when it goes from 3 to 9?

15. In the given figure, name the following angles as acute, obtuse, right, straight, or reflex.

- (a) $\angle QOY$ (b) $\angle YOP$ (c) $\angle ROX$ (d) $\angle QOX$ (e) $\angle POQ$



16. Measure the angles below using the protractor and write down the measure.



CHAPTER-7 FRACTIONS.

Choose the correct answer:

1. If the numerator and denominator of a fraction are equal, then the fraction is

- (a) Equal to 1 (b) less than 1 (c) equal to 0 (d) greater than 1

2. A fraction whose denominator is greater than its numerator is called a

- (a) Proper fraction (b) unit fraction (c) improper fraction (d) none of the above

3. A fraction with numerator 1 is called a

- (a) Mixed number (b) proper fraction (c) unit fraction (d) like fraction

4. The largest of the fractions $\frac{8}{9}$, $\frac{8}{7}$, $\frac{8}{10}$, $\frac{8}{11}$ is:

- (a) $\frac{8}{7}$ (b) $\frac{8}{9}$ (c) $\frac{8}{10}$ (d) $\frac{8}{11}$

5. If $\frac{4}{5} = \frac{x}{20}$ then , x=

- a) 14 b) 16 c) 18 d) 20

6. Solve:

a) $\frac{4}{7} + \frac{2}{4}$

b) Subtract $\frac{5}{6}$ from $\frac{6}{4}$

c) Find $\frac{2}{3} + \frac{3}{4} + \frac{1}{2}$

d) Add $2\frac{5}{6}$ and $3\frac{4}{5}$

e) $\frac{4}{7} = \frac{\square}{56}$

f) $\frac{48}{84} = \frac{4}{\square}$

Case Study I. Three friends Alice, Carol and Teena ordered a pizza to share. The pizza was cut into 8 equal pieces.

i).If Alice ate 2 pieces of pizza, what fraction of the pizza did she eat?

ii) Carol ate $\frac{1}{4}$ of the pizza. How many slices did she eat?

iii) What fraction of pizza did Teena eat?

Assertion Reasoning Questions:

I Assertion (A) – $\frac{1}{2}$ fraction of 1KM is 250 M.

Reason (R) – a fraction is a number representing part of a whole.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

II. Assertion (A) – $\frac{1}{2}$ fraction of an hour is 30 minutes.

Reason (R) – a fraction is a number representing part of a whole.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

