

//_

Tender Heart High School, Sec-33B, Chandigarh

Class - VI

Date - 24.02.2025

Subject - Mathematics

Teacher - Ms. Sushma

Revision Worksheet

Q1. Write the following sets in Roster form

- (i) $A =$ Set of natural numbers less than 10.
- (ii) $B =$ The letters of the word 'PILLOW'.
- (iii) $C =$ Set of first five prime numbers.

Q2. Write each of the following sets in the Set builder form:-

- (i) $A = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$.
- (ii) $B = \{\text{Sunday, Saturday}\}$.
- (iii) $C = \{1, 3, 5, 7, 9, \dots\}$.

Q3. Which of the following pairs of sets are equivalent?

- (i) $A =$ The set of the letters in the word EXAMINATION.
 $B =$ The set of the letters in the word ARITHMETIC
- (ii) $C = \{2, 4, 4, 5\}$. $D = \{a, b, c\}$

Q4. Write the cardinal number of each set:-

- (i) $P = \{x: x \text{ is a whole number, } x < 11\}$.
- (ii) $A = \{x: x \text{ is a prime factor of } 72\}$.
- (iii) $B = \{x: x \text{ is an odd prime number, } x < 17\}$.

//_

Q5. Which of the following pairs of sets are equal?

(i) $A = \{x: x \text{ is a letter of the word 'ALLOY'}\}$
 $B = \{x: x \text{ is a letter of the word 'LOYAL'}\}$

(ii) $C = \{x: x \text{ is a counting number } 2 < x < 4\}$
 $D = \{x: x \text{ is a prime number, } x \text{ is odd}\}$

Q6. Write down the coefficient of x in the following:-

(i) $3x$

(ii) $-2xy^2$

(iii) $4xyz$

(iv) $7xy^2z^3$

Q7. If $a=3$, $b=-1$ and $c=2$, then find the value of $\frac{3ab - 2b^2}{2ac + c^2}$.

Q8. Write the following in product form.

(i) $5x^2yz^3$

(iii) $2m^3n^5$

(ii) $7p^3q^4r^5$

(iv) $3a^2b^3c^4$

Q9:- Solve the following equations:-

i) $5(y-1) = 3(2y-5) - (1-3y)$

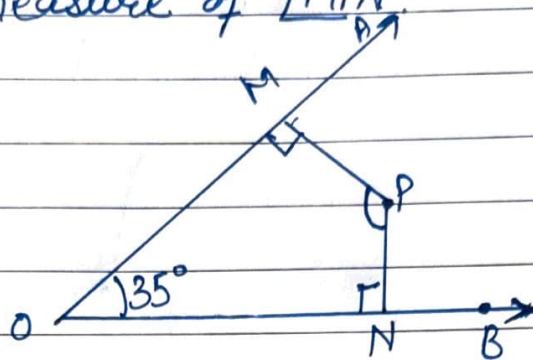
ii) $2(x-1) - 6x = 10 - 2(x-4)$

Q10:- Construct the angles of 60° , 30° , 45° , 90° , 120° by using ruler and compasses.

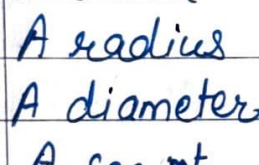
Q11. Find the no. of sides of a polygon whose sum of interior angles is 1260°

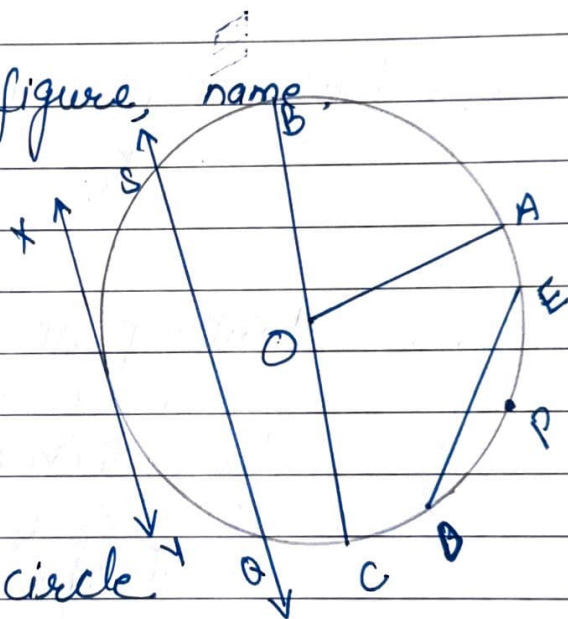
Q12 Find the sum of interior angles of a polygon with 10 sides.

Q13. In the adjoining figure, P is a point in the interior of $\angle AOB$. $PM \perp OA$ and $PN \perp OB$. If $\angle AOB = 35^\circ$, what is the measure of $\angle MPN$?



Q14. Using the adjoining figure, name

- (i) A chord
- (ii) A radius
- (iii) A diameter
- (iv) A secant
- (v) A Tangent
- (vi) An arc
- (vii) A major arc of the circle
- 



Q15. The area of a square and a rectangle are equal. If each side of the square is 20cm and the breadth of the rectangle is 16 cm, find the:-

- (i) Area of the rectangle
- (ii) Length of the rectangle
- (iii) Perimeter of the rectangle.

- Q16. Raju is going on his scooter at a speed of 42 km/hr . How much time will he take to cover 875 metres ?
- Q17. A car is running at 20 m/s . How much distance does it cover in $2\frac{1}{2}$ hours?
- Q18. Fill in the blanks:-
- (i) A cuboid has _____ pairs of opposite faces.
 - (ii) The triangular pyramid is also known as _____.
 - (iii) A hexagonal prism has _____ vertices and _____ edges.
- Q19. Construct a $\triangle ABC$ in which $AB = AC = 5 \text{ cm}$ and $BC = 4.5 \text{ cm}$. Draw all its lines of symmetry. How many such lines are there?
- Q20. Find the mean of $22, 24, 26, 28, 30, 32, 34, 36$.
- Q21. The weights (in kg) of 8 children are:-
 $13.4, 10.6, 12.7, 17.2, 14.3, 15, 16.5, 9.8$.
Find the median weight.
- Q22. Draw a line segment $AB = 5.5 \text{ cm}$. Using ruler and compasses, draw the line bisector of AB .