

Jender Heart High School, Sec- 33B, Chandigarh

Class - VI

Date - 17.02.2025

Subject - Mathematics

Teacher - Ms. Sushma

Revision Worksheet

Q1. Specify each of the following sets in the Roster form.

(i) The set of odd numbers less than 15.

(ii) The set of last three months of the year.

(iii) The set of multiples of 7 less than 100.

(iv) The set of consonants in the word 'AMERICA'?

Q2. Write each given set in the Set Builder Form.

(i) $\{4, 8, 12, 16, 20, 24, \dots\}$

(ii) $\{\text{March, May}\}$

(iii) $\{\text{Set of planets in our Solar System}\}$

(iv) $\{\text{Set of colours of a rainbow}\}$

(v) $\{\text{Set of even numbers between 22 and 40}\}$

Q3. State which of the following sets are finite and which are infinite.

(i) $\{\text{No. of people in India}\}$

(ii) $\{\text{Multiple of 7}\}$

(iii) $\{0, 1, 2, 3, \dots\}$

(iv) The set of atoms in the Earth

(v) The set of leaves on a tree.

Q4. Which of the following pairs of sets are equal sets?

(i) $P = \{a, b, c, d\}$, $Q = \{d, a, c, b\}$

(ii) $M = \{x, e, d\}$, $N = \{d, a, x\}$

(iii) $X = \{0, 1, 2, 3\}$, $Y = \{\text{Whole numbers less than 4}\}$.

Q5. What is the cardinal number of each of the following sets?

(i) The set of hours in a day.

(ii) The set of prime numbers less than 10.

(iii) The set of weeks having 8 days.

(iv) $P = \{\text{planets in our solar system}\}$

(v) $K = \{\text{letters in the word 'MADAM'}\}$.

Q6. Which of the following pairs of sets are equivalent sets.

(i) $A = \{x, y, z\}$ and $B = \{a, b, c\}$.

(ii) $A = \{1, 2, 3, 4, 5\}$ and $B = \{a, e, i, o, u\}$.

Q7. If $x=5$, $y=6$, $z=10$, find the value of:-

(i) $\frac{3z}{x}$

(ii) $\frac{xy}{z}$

(iii) $b^2 - 2bc + c^2$

Q8. If $a=2$, $b=3$ and $c=4$, find the value of:-

(i) $a^2b + ab^2$

(ii) b^4

Q9. Solve the following equations:-

(i) $y+7=10$

(ii) $\frac{n}{6} = 8$

Q10. Add $\rightarrow 17a^2b$, $15a^2b$ and $-8a^2b$

Q11. Subtract $8xy$ from $15xy$.

Q12. The present age of Shyam is x years. What will be his age after 6 years?

Q13. Twice of a number decreased by 16 equals to 30. What is the number?