

PSM PUBLIC SCHOOL
CLASS – VIII SUBJECT – MATHEMATICS
REVISION WORKSHEET
CHAPTER – 7 AND 8

Q1. Solve value for x: $5x + 45 = 31$

Q2. 3 added to twice a number gives 133. Write an equation for this statement.

Q3. Write all the factors of $12x^3y^2$

Q4. Write the factors of $x^2 - y^2$

Q5. Factorise the following:

a. $X^2 + 6x + 8$ c. $2a^2 + 5ab + 2b^2$

b. $P^2 - 4pq + 4q^2 - 4r^2$ d. $(p + q)^2 - 4pq$

Q6. Regroup and factorise the following:

a. $X^2 - xy + yz - yz$ b. $(a + b)^2 (a-b)^2 \{(a+b)(a - b)\}$

Q7. Divide :

a. $42(a^4 - 2a^3 - 24a^2)$ by $14a(a - 6)$

b. $(4a^2 - 36ab + 81b^2)$ by $(2a - 9b)$

Q8. Rakha has four times as many five-rupee coin as she two – rupee coins. Altogether she was Rs. 440. Find the number of coins of each denomination.

Q9. A and B together have Rs. 756. If A's share is twice that of B's share, find each one's share.

Q10. A number consists of two digits. The digit in the units place is double the digit in the tens place. If 3 is subtracted from the sum of the digit, the difference is $\frac{1}{6}$ of the number. Find the number.

Q11. The length of a rectangle exceeds its breadth by 4m. If the length is increased by 4m and the breadth is decreased by 2m, the area will be not be altered. Find the length and the breadth of the rectangle.

Q12. Sreela is 32 years older than her daughter. Twelve years hence Sreela's age will be three times her daughter's age. Find their present ages.

Q13. The sum of the digits of a 2 digit number is 9. The number by reversing the digits is less than the original number by 45. Find the original number.