PSBB LEARNING LEADERSHIP ACADEMY
WEEKEND ASSIGNMENT
CLASS: VIII
MATHEMATICS

1. The common factor of 3ab and 2cd is
(a) 1 (b) – 1 (c) a (d) c

2. The value of $(3x^3 + 9x^2 + 27x) \div 3x$ is
(a) $x^2 + 9 + 27x$ (b) $3x^3 + 3x^2 + 27x$ (c) $3x^3 + 9x^2 + 9$ (d) $x^2 + 3x + 9$

3.The correct mathematical statement for the given equation is:

$x(3x+2) = 3x^2+2$

(a)$3x^2+2x$ (b) $3x^2$ (c) $5x^2+2x$ (d) none of these

4. What are the factors of $x^2+xy-2xz-2yz$?

(a) (x−y) and (x+2z) (b) (x+y) and (x−2z) (c) (x−y)and (x−2z) (d) (x+y) and (x+2z)

5. Amrit and Pankaj expanded $(x-5)^2$. Amrit's answer is x^2-25 and Pankaj's answer is $x^2-10x+25$. Which of the following statements is correct?

(a) Amrit's answer is correct. (b) Pankaj's answer is wrong. (c) Both got correct answer. (d) Pankaj's answer is correct.

6. What is the coefficient of 'a' when $9a^2+18a$ is divided by (a+2)?

(a)18 (b) 9 (c) $\frac{1}{2}$ (d) 2

7. When we factorise an expression, we write it as a _____ of factors.

(a) sum (b) difference (c) product (d) (b) & (c) both

8.Factorise:

(a)$(3x-y)^2 - 2(3x-y) - 35$

(b) $x^2+2xy - 15y^2$

9. Find the factors of given expression x^4+x^2+1

10.Factorise(mention the identity used)

(a) $49 - 25x^2$

(b) $9x^2 - (2x-3y)^2$

(c) $3x - 243x^5$

(d) $\frac{4}{9}x^2 - \frac{25}{36}y^2$

10.Evaluate using identities:

$$\frac{96\ X\ 96-4\ X\ 4}{92}$$

11. Divide:

(a) -24$x^3y^2z^3$ by 8x^2yz^2

(b) 9x^4-18x^3+4x^2 by 2x