Subject: - Mathematics
Topic: - Algebraic Expressions

PRACTICE PAPER (MCQ) CBSE-8th

1. If $(x+2)(x+8)-(x+3)(x-3)=0$, what is the value of x? **Ans. (c)**

a) – 10 b) 0 c) $-\frac{5}{2}$ d) 9

2. $(x^2-1)\div(x+2)$ is: - **Ans. (b)**

a) $(x-2)+\frac{-5}{x+2}$ b) $x-2+\frac{3}{x+2}$ c) $x+2+\frac{-5}{x-2}$ d) $x+2+\frac{3}{x-2}$

3. If $a+b=15$ and $a^2-b^2=60$, what is the value of $a-b$? **Ans. (d)**

a) 45 b) 75 c) 8 d) 4

4. If $xy=20$ and $(x+y)^2=70$, then $x^2+y^2=?$ **Ans. (c)**

a) 25 b) 35 c) 30 d) 50

5. If $x+\frac{1}{x}=2$, then $x^2+\frac{1}{x^2}=?$ **Ans. (b)**

a) 4 b) 2 c) 0 d) None of these.

6. If the area of the rectangle is $24(x^2yz+xy^2z+xyz^2)$ and its length is 8xyz, then its breadth is: - **Ans. (a)**

a) $3(x+y+z)$ b) $3xyz$ c) $3(x+y-z)$ d) None of these.

7. Volume of rectangular box whose adjacent edges are $3x^2y$, $4y^2z$ and $5z^2x$ respectively is: - **Ans. (c)**

a) $60xyz$ b) $60x^2y^2z^2$ c) $60x^3y^3z^3$ d) None of these.

8. When $x^{13}+1$ is divided by $x+1$, the remainder is: - **Ans. (b)**

a) – 1 b) 0 c) 1 d) 2

9. Which one of the following is not a factor of x^3+2x^2+x. **Ans. (a)**

a) $x+2$ b) $x+1$ c) x d) $x(x+1)$

10. Simplify: - $3a-[4b-\{a-(3c-2b)+5c-3(a-2b-3c)\}]$ **Ans. (a)**

a) $a+4b+11c$ b) $2a+3b+9c$ c) $a+9b+12c$ d) $2a+5b+11c$