

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

Date:

Name:

ID No.....

Rapid Fire Quiz

State which of the following statements are true or false by tick (\checkmark) marking in the box

1. The value of $125^2 - 124^2$ is 349.

2. If the value of $(6)^3 + (-11)^3 + (5)^3$ is equal to 1672.

3. If $x^{151} + 151$ is divided by $(x + 1)$, the remainder is 150.

4. If $(x - 1)$ is a factor of polynomial $4x^3 + 3x^2 - 4x + R$, then the value of R is 3.

5. $(x + 1)$ is a factor of the polynomial $2x^3 + x^2 - 2x - 1$.

6. If $a + b + c = 0$, then $a^3 + b^3 + c^3$ is equal to $3abc$.

7. The factorisation of $x^3 - 6x^2y + 12xy^2 - 8y^3$ is $(x - 2y)(x - 2y)(x - 2y)$.

8. The factorisation of $8x^3 - 27y^3$ is $(2x + 3y)(4x^2 - 6xy + 9y^2)$.

9. A linear polynomial can have three terms.

10. The factors of $x^3 + 27$ are $(x + 3)(x^2 - 3x + 9)$.

11. The coefficient of x^2 in $(x - 2)^3$ is -6.