

## Algebraic Expressions

### Multiple choice questions

- 1) The sum of  $4a^2$  and  $6a^2$  is
- a)  $10a^2$
  - b)  $10a^4$
  - c)  $4a^4$
  - d)  $6a^4$
- 2)  $3x^2y \times 5x^2y$  gives
- a)  $15x^2y^2$
  - b)  $15x^4y^2$
  - c)  $15x^2y$
  - d)  $15xy^2$
- 3)  $45x^3y^2 \div 15xy$  gives
- a)  $3x^2y^2$
  - b)  $3x^2y$
  - c)  $3xy$
  - d)  $3x^3y^2$
- 4)  $95x^2y^2 - 90x^2y$
- a)  $5x^4y^2$
  - b)  $5x^2y^2$
  - c)  $5x^2y$
  - d)  $5x^0y^0$
- 5) The result of  $(7p^2 + 8q + 9r) + (3p^2 + 2q + r)$
- a)  $10p^2 + 8q + 10r$
  - b)  $10p^2 + 6q + 9r$
  - c)  $10p^2 + 2q + r$
  - d)  $10(p^2 + q + r)$

6)  $(3x^2 + 5x - 6) - (10x^2 - 5x - 8)$

- a)  $7x^2 + 10x + 14$
- b)  $7x^2 + 5x + 2$
- c)  $-7x^2 + 10x + 2$
- d)  $7x^2 + 10x + 14$

7)  $(x + 2)(x + 1)$

- a)  $x^2 + 2x + 2$
- b)  $x^2 + 3x + 2$
- c)  $x^2 + 2x + 1$
- d)  $x^2 + 2x + 3$

8)  $(36x^2 - 25y^2) \div (6x - 5y)$  gives

- a)  $6x - 5y$
- b)  $(6x - 5y)^2$
- c)  $6x + 5y$
- d)  $(6x + 5y)^2$

9) The sides of a triangle are  $x + 2$ ,  $x + 5$  and  $2x + 3$ , its perimeter is

- a)  $4x + 10$
- b)  $4x + 5$
- c)  $4x + 7$
- d)  $4x + 2$

10) The each four sides of a square are  $(x + 1)$  cm , then its area is

- a)  $4(x + 1)$  cm<sup>2</sup>
- b)  $4(x + 1)^2$  cm<sup>2</sup>
- c)  $(x + 1)^2$  cm<sup>2</sup>
- d)  $(x + 1)$  cm<sup>2</sup>