

1) Simplify the following

a)  $x^5 \div x$

b)  $y^4 \div y^3$

c)  $g^8 \div g^5$

d)  $y^4 \div y^2$

e)  $x^3 \div x^3$

2) Simplify the following

a)  $6x^4 \div x$

b)  $12y^5 \div 3y^2$

c)  $10g^7 \div 2g^5$

3) Simplify the following

a)  $\frac{x^6}{x^2}$

b)  $\frac{x^9}{x^4}$

c)  $\frac{6x^8}{2x^6}$

4) Simplify the following

a)  $\frac{x^6 \times x^3}{x^4}$

b)  $\frac{x^3 \times x^4}{x^2 \times x}$

c)  $\frac{(x + 5)^5}{(x + 5)^2}$

5) Simplify the following

a)  $20x^6 \div 5x^2$

b)  $\frac{14x^7}{2x^2}$

c)  $\frac{8x \times 2x^3}{4x^2}$

## Simplifying

- 1) a) Simplify  $4p \times 6q$   
b) Simplify  $d \times d \times d \times d$   
c) Simplify  $t^9 \div t^4$
- 2) a) Simplify  $4a + 3c - 2a + c$   
b) Simplify  $2x - 6c - x + 2c$
- 3) a) Simplify  $5xt + 2xt - 4xt$   
b) Simplify  $4x + 3y - 2x + 4y$   
c) Simplify  $m \times m \times m$   
d) Simplify  $3n \times 2t$
- 4) Simplify  $3x^2 \times 4x^5y^4$
- 5) Simplify  $4x + 3y - 2x + 6y$
- 6) a) Simplify  $t^4 \times t^5$   
b) Simplify  $a \times a \times a$
- 7) a) Simplify  $x^6 \times x^2$   
b) Simplify  $10x^2y^4 \div 2xy^2$
- 8) a) Simplify  $3a + 5c - a + 3c$   
b) Simplify  $x^3 \times x^4$   
c) Simplify  $4x^2y^4 \times 5xy^2$
- 9) Simplify  $6x + 8y + 2x - 10y$
- 10) a) Simplify  $x \times x \times x \times x$   
b) Simplify  $2x \times 3y$
- 11) a) Simplify  $pq + 2pq$   
b) Simplify  $5x + 3y - x - 4y$
- 12) a) Simplify  $6a + 5b - 3b + a$   
b) Simplify  $x^4 + x^4$
- 13) a) Simplify  $x + y + x + y + x$   
b) Simplify  $t^2 + t^2 + t^2$
- 14) a) Simplify  $a^3 \times a^3$   
b) Simplify  $\frac{3x^2y \times 4xy^3}{2xy^2}$
- 15) a) Simplify  $3d + e - d + 4e$   
b) Simplify  $3x^2 - x^2$   
c) Simplify  $5t + 8d - 2t - 3d$   
d) Simplify  $\frac{(3x + 1)^3}{(3x + 1)}$