

1. (a) Simplify $m^3 \times m^6$

(b) Simplify $\frac{p^8}{p^2}$

(c) Simplify $(2n^3)^4$

2. (a) Simplify $m^6 \times m^7$

(b) Simplify m^0

3. (a) Simplify $m^5 \div m^3$

(b) Simplify $5x^4y^3 \times x^2y$

4. (a) Simplify $a^4 \times a^5$

(b) Simplify $\frac{45e^6f^8}{5ef^2}$

5. (a) Simplify $m^2 \times m^4$

(b) Simplify $y^7 \div y^5$

(c) Simplify $(m^3)^5$

6. (a) Simplify $p^2 \times p^7$

(b) Simplify $\frac{3q^4 \times 2q^5}{q^3}$

(c) Simplify $(2xy^3)^5$

7. (a) Simplify $15y^6 \div 3y^2$

(b) Simplify $7wx^2 \times 3w^3x$

8. (a) Simplify $(2^2)^3$

(b) Simplify $(\sqrt{3})^2$

(c) Simplify $\sqrt{2^4 \times 9}$

(d) Simplify 4^{-2}

9. (a) Write the value of $49^{\frac{1}{2}}$

(b) Simplify $\frac{x^6}{x^2}$

(c) Simplify $(y^4)^3$

- | | |
|---|--|
| <p>10. Simplify $\frac{15a^3b^7}{3a^2b^3}$</p> <p>11. $7^5 \times 7^6 = 7^3 \times 7^k$
Find the value of k</p> <p>12. (a) Simplify $p^3 \times p^2$
(b) Simplify $\frac{q^3 \times q^4 \times q}{q^3}$</p> <p>13. Find the value of (i) $36^{\frac{1}{2}}$
(ii) 4^{-2}</p> <p>14. (a) Write as a power of 7 (i) $7^8 \div 7^3$
(ii) $\frac{7^2 \times 7^3}{7}$
(b) Write down the reciprocal of 2</p> | <p>15. (a) Simplify $12y^3 \div 3y^5$
(b) Simplify $2w^3x^2 \times 3w^4x$</p> <p>16. (a) Work out the value of (i) 4^2
(ii) $\sqrt{64}$
(ii) 3×2^3</p> <p>17. Simplify (i) $x^4 \times x^5$
(ii) $\frac{p^8}{p^3}$
(iii) $3s^2t^3 \times 4s^4t^2$
(iv) $(q^3)^4$</p> <p>18. Simplify fully (i) $(p^3)^3$
(ii) $\frac{3q^5 \times 2q^5}{q^3}$</p> |
|---|--|