

Dividing and Simplifying Algebraic Terms Worksheet

Solve each problem below. Simplify all answers as much as possible. **Show your working for full marks.**

1. Simplify: $\frac{12x^5y^3}{4x^2y}$

2. Simplify: $\frac{18a^4b^2}{6a^2b}$

3. Divide and simplify: $(15x^3y^2) \div (5xy)$ as

4. Simplify: $\frac{24m^6n^3}{8m^2n^2}$

5. Simplify: $\frac{9p^7q^3}{3p^2q}$

6. Divide and simplify: $(20x^5y^2) \div (4x^2y)$

7. Simplify: $\frac{35a^6b^4}{7a^2b}$

8. Simplify: $\frac{16m^8n^2}{4m^3n}$

9. Divide and simplify: $(21x^4y^3) \div (7x^2y)$

10. Simplify: $\frac{28p^5q^6}{14p^2q^3}$

11. Divide and simplify: $(32a^7b^4) \div (8a^3b^2)$

12. Simplify: $\frac{45m^9n^5}{15m^3n^2}$

13. Simplify: $\frac{54x^6y^8}{9x^2y^3}$

14. Divide and simplify: $(63a^5b^9) \div (9a^2b^3)$

15. Simplify: $\frac{40p^8q^6}{10p^2q^2}$

16. Simplify: $\frac{27m^5n^7}{3m^2n^4}$

17. Divide and simplify: $(50x^6y^4) \div (5x^2y)$

Maths with Melissa

Answer Key

1. $3x^3y^2$
2. $3a^2b$
3. $3x^2y$
4. $3m^4n$
5. $3p^5q^2$
6. $5x^3y$
7. $5a^4b^3$
8. $4m^5n$
9. $3x^2y^2$
10. $2p^3q^3$
11. $4a^4b^2$
12. $3m^6n^3$
13. $6x^4y^5$
14. $7a^3b^6$
15. $4p^6q^4$
16. $9m^3n^3$
17. $10x^4y^3$