Maths with Melissa

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: $(50x^6y^4) \div (5x^2y)$

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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. $10x^4y^3$