

Exponents Practice

Perform the following operations:

1. $6x \cdot 12x$

2. $(-m^3)^4$

3. $\frac{7x^2y^3}{14y}$

4. $3ab(7cd)$

5. $\left(-\frac{3}{8}z^2\right)^2$

6. $\frac{25a^3bc^3}{5a^2bc}$

7. $\frac{4}{5}x(20x^2)$

8. $(1.1x^6)^3$

9. $\frac{xyz}{-xyz}$

10. $(rs^3t^4u^9)^3$

11. $-28m^2n\left(\frac{3}{7}mn^3\right)$

12. $\frac{13q^4rt^3}{26qr^4t}$

1. $72x^2$

2. m^{12}

3. $\frac{x^2y^2}{2}$

4. $21abcd$

5. $\frac{9}{64}z^4$

6. $5ac^2$

7. $16x^3$

8. $1.331x^{18}$

9. -1

10. $r^3s^9t^{12}u^{27}$

11. $-12m^3n^4$

12. $\frac{q^3t^2}{2r^3}$

13. $(1.3x^3y^2z)^3$

14. $\frac{5}{8}y^2(-12y)\left(\frac{4}{5}y^3\right)$

15. $12x(3x^2)(0)$

16. $\frac{5ef^2g^3}{2e^3}$

17. $-(3b^2cd^4)^3$

18. $\frac{3m^2n^5p^3}{21m^5n^6p^3}$

19. $\frac{-a^3bc^2}{ab^3c}$

20. $(-9x^2y)(-5xy^3)$

21. $\left(\frac{4}{3}x^2y^3z^4\right)^3$

22. $-1.2x^2y^2z^2(-10xyz^3)$

23. $(-5j^2k^3)^3$

24. $\frac{18r^2t^2v}{9r^4t}$

13. $2.197x^9y^6z^3$

14. $-6y^6$

15. 0

16. $\frac{5f^2g^3}{2e^2}$

17. $-27b^6c^3d^{12}$

18. $\frac{1}{7m^3n}$

19. $\frac{-a^2c}{b^2}$

20. $45x^3y^4$

21. $\frac{64}{27}x^6y^9z^{12}$

22. $12x^3y^3z^5$

23. $-125j^6k^9$

24. $\frac{2tv}{r^2}$