



6.1 Puzzle Time

Why Do Bees Have Sticky Hair?

Write the letter of each answer in the box containing the exercise number.

Simplify the expression. Write your answer using only positive exponents, when necessary.

1. $(-9)^0$

2. 4^{-2}

3. $(-6)^{-3}$

4. $\frac{8^{-3}}{4^0}$

5. $\frac{12^{-2}}{(-13)^0}$

6. $\frac{(9^{-2})}{(3^{-3})}$

7. $15x^0y^{-2}$

8. $21x^{-5}y^0$

9. $\frac{10^{-2}x^{-4}}{y^0}$

10. $\frac{3^{-4}x^0}{y^{-8}}$

11. $\frac{14x^0y^{-2}}{2^{-1}z^{-3}}$

12. $\frac{5^2y^{-10}}{5^{-1}z^0x^{-5}}$

13. $(x^7)^{-5}$

14. $9^{-12} \cdot 9^4$

15. $\frac{y^2 \cdot y^4}{y^3}$

16. $(-2x)^4$

17. $\left(\frac{x}{11}\right)^{-2}$

18. $\left(\frac{1}{3y^3}\right)^{-3}$

Answers

E. $\frac{1}{3}$

A. $\frac{1}{512}$

H. $\frac{1}{9^8}$

N. $\frac{125x^5}{y^{10}}$

Y. $27y^9$

O. $\frac{21}{x^5}$

B. $-\frac{1}{216}$

S. $\frac{y^8}{81}$

H. $16x^4$

Y. $\frac{1}{144}$

E. $\frac{1}{100x^4}$

M. $\frac{121}{x^2}$

O. 1

C. y^3

V. $\frac{1}{x^{35}}$

E. $\frac{1}{16}$

T. $\frac{15}{y^2}$

H. $\frac{28z^3}{y^2}$

7	14	2	5		11	4	13	9		16	1	12	6	18	15	8	17	3	10
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