



## 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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