

What Did Professor Utterbunk Say When Asked: Have You Ever Heard of the Planet Saturn?

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

1 5^3

Answers 1-8:

T $\frac{1}{144}$ M $\frac{1}{125}$

2 5^{-3}

P -1 R $-\frac{1}{64}$

3 3^{-5}

I 125 L 144

4 $(-5)^{-3}$

U 1 N $\frac{1}{243}$

5 $(-12)^{-2}$

O $-\frac{1}{125}$ F -125

6 -12^{-2}

E $\frac{1}{64}$ S $-\frac{1}{144}$

7 $(-12)^0$

8 $(-4)^{-3}$

17 $7ab^0$

Answers 17-23:

I $\frac{2y^8}{x^3}$ A $\frac{7a}{b^4}$

18 $7ab^{-4}$

R $2x^3y^8$ O $7ab^4$

19 $\frac{7}{ab^{-4}}$

F $\frac{7b^4}{a}$ L $\frac{1}{2x^3y^8}$

20 $\frac{7^{-2}a}{b^{-1}}$

S $7a$ A $\frac{ab}{49}$

21 $2x^3y^{-8}$

M $\frac{2x^3}{y^8}$ N $\frac{b}{49a}$

22 $\frac{2x^{-3}}{y^{-8}}$

23 $\frac{2^{-1}x^{-3}}{y^8}$

9 -4^{-3}

Answers 9-16:

O 16 I $\frac{1}{75}$

10 10^{-5}

T $-\frac{1}{75}$ E $-\frac{1}{64}$

11 $(-10)^{-5}$

A $-\frac{1}{16}$ N $\frac{1}{1000}$

12 10^0

T 1 R -75

13 75^{-1}

S -64 H $\frac{1}{16}$

14 -75^{-1}

B $\frac{1}{100,000}$

15 $(-2)^{-4}$

U $-\frac{1}{100,000}$

16 -2^{-4}

24 $\frac{3n^2}{t^{-5}}$

Answers 24-30:

T $\frac{64c}{5d^6}$ G $-\frac{5}{64c}$

25 $3^4n^{-2}t^5$

I $3n^2t^5$ I $320d^6$

26 $\frac{3^{-4}t^{-5}}{n^{-2}}$

R $\frac{n^2}{81t^5}$ A $\frac{81t^5}{n^2}$

27 $\frac{8^2c^{-1}d^{-6}}{5}$

E $320cd^6$ S $81n^2t^5$

28 $\frac{(-8)^2c^0}{5^{-1}d^{-6}}$

R $\frac{64}{5cd^6}$ N $\frac{c}{320d^6}$

29 $\frac{(-8)^{-2}d^{-6}}{5c^{-1}}$

30 $\frac{-8^{-2}}{5^{-1}cd^0}$

1	2	3	4	5	6	7	8	9	10	11	12	13	14		
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

