

How Did the Absent-Minded Professor Burn His Ear?

Simplify the expression. Write the letter of the exercise in the box that contains the number of the answer.



E $n^2 \cdot n^5$

N $(n^2)^5$

H $(n^{-2})^5$

A $(n^9)^4 n^3$

O $(n^2)(n^3)^{-2}$

I $(n^4)^{-3}(n^4)^{-1}$

E $(n^{10})^{10}(n^{-8})^3$

Answers • Part 1

29 n^{76} **31** n^{42}

20 n^{81} **18** n^7

33 n^{10} **5** n^{39}

27 $\frac{1}{n^4}$ **8** $\frac{1}{n^{16}}$

4 $\frac{1}{n^{12}}$ **22** $\frac{1}{n^{10}}$

N $(7d)^2$

H $(4d^2)^3$

S $(-4d^2)^3$

A $(4d^2)^{-3}$

O $(-5d)^2(d^3)^2$

E $8(d^2)^2(-2d)^3$

H $(3d^5)^{-4}(d^{-1})^9$

Answers • Part 2

23 $-64d^7$ **17** $64d^6$

6 $-64d^6$ **30** $25d^{10}$

13 $49d^2$ **10** $25d^8$

9 $\frac{1}{81d^{18}}$ **1** $\frac{1}{81d^{29}}$

32 $\frac{1}{64d^6}$ **12** $\frac{64}{d^9}$

I $(x^5y^4)^2$

N $(10xy^2)^3(x^2)$

H $(-x^3y^8)^3$

E $(x^2y)^5(x^2y^5)$

G $(9x^3y^4)^2(xy)^{-6}$

T $(3x^{-2})^4(x^2y^4)^3$

W $(-5y^{-5})^3(-x^4y)^2$

Answers • Part 3

14 $81y^2$ **3** $1000x^6y^2$

12 $x^{10}y^8$ **26** $-x^9y^{24}$

2 $x^{12}y^{10}$ **19** $1000x^5y^6$

16 $\frac{81y^7}{x^4}$ **4** $\frac{125x^8}{y^{13}}$

21 $\frac{81y^{12}}{x^2}$ **25** $\frac{125x^9}{y^{12}}$

N $(-6m^7t^4)^2$

R $(3m^2t)^2(3m^2t^2)$

W $(-2mt)^3(-2mt^3)$

G $-m^5t^2(15mt^5)^2$

N $(4mt^{-3})^2(-4m^{-3}t)^2$

P $(5mt)^2 + 5m^2t^2$

R $(mt^4)^{-1}(mt^4)$

Answers • Part 4

25 $30m^2t^2$ **34** $-225m^7t^{12}$

16 $16m^4t^6$ **24** $-225m^6t^{10}$

9 1 **11** $36m^{14}t^8$

31 $27m^6t^4$ **7** $27m^5t^6$

15 $\frac{256m^2}{t^3}$ **28** $\frac{256}{m^4t^4}$

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	31	32	33	34
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