

What Did Dr. Drone Say To the Guy Who Thought He Was a \$100 Bill?



Simplify the expression and find your answer in the adjacent answer column. Write the letter of the exercise in the box that contains the number of the answer. Assume that all variables represent nonnegative numbers.

G $\sqrt{12}$

I $\sqrt{50}$

O $\sqrt{45}$

E $\sqrt{600}$

S $\sqrt{98}$

U $\sqrt{48}$

O $\sqrt{125}$

W $\sqrt{162}$

9 $5\sqrt{2}$

2 $5\sqrt{5}$

35 $6\sqrt{2}$

33 $4\sqrt{3}$

14 $10\sqrt{6}$

20 $2\sqrt{3}$

5 $4\sqrt{5}$

23 $9\sqrt{2}$

36 $3\sqrt{5}$

19 $5\sqrt{3}$

4 $7\sqrt{2}$

A $2\sqrt{18}$

O $8\sqrt{28}$

G $-3\sqrt{1000}$

E $5\sqrt{75}$

D $-4\sqrt{490}$

L $9\sqrt{72}$

H $-7\sqrt{80}$

O $3\sqrt{144}$

37 $-30\sqrt{3}$

6 36

18 $6\sqrt{2}$

21 $25\sqrt{3}$

16 $-28\sqrt{6}$

26 $54\sqrt{2}$

29 $16\sqrt{7}$

13 $-28\sqrt{5}$

24 $45\sqrt{3}$

11 $-30\sqrt{10}$

38 $-28\sqrt{10}$

Y $\sqrt{16n^2}$

N $\sqrt{20n^2}$

H $\sqrt{49n^3}$

T $\sqrt{63n^3}$

O $\sqrt{36n^4}$

L $-\sqrt{200n^4}$

P $\sqrt{900n^5}$

G $\sqrt{60n^8}$

17 $7n\sqrt{n}$

7 $30n^2\sqrt{n}$

15 $3n^2\sqrt{5n}$

10 $2n\sqrt{5}$

25 $-10n^2\sqrt{2}$

12 $3n\sqrt{7n}$

27 $4n^4\sqrt{5}$

1 $2n^4\sqrt{15}$

31 $4n$

32 $6n^2$

30 $-10n^2\sqrt{2n}$

O $\sqrt{25x^2y}$

D $\sqrt{90x^4y^2}$

G $\sqrt{81x^3y^4}$

I $\sqrt{24x^2y^6}$

C $\sqrt{15xy^3}$

P $3\sqrt{500x^8y^2}$

N $-2\sqrt{121x^3y}$

H $4\sqrt{44x^6y^5}$

8 $30x^4y\sqrt{5}$

34 $-22x^2\sqrt{xy}$

28 $3x^2y\sqrt{10}$

5 $8x^3y^2\sqrt{11y}$

22 $xy\sqrt{15}$

24 $2xy^3\sqrt{6}$

37 $5x\sqrt{y}$

19 $-22x\sqrt{xy}$

16 $y\sqrt{15xy}$

3 $30y^4\sqrt{5y}$

35 $9xy^2\sqrt{x}$

1	2	3	4	5	6	7	8	9	10	11
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12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
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$$G. \sqrt{12} = \sqrt{4 \cdot 3} = 2\sqrt{3}$$

$$I. \sqrt{50} = \sqrt{25 \cdot 2} = 5\sqrt{2}$$

$$O. \sqrt{45} = \sqrt{9 \cdot 5} = 3\sqrt{5}$$

$$E. \sqrt{600} = \sqrt{100 \cdot 6} = 10\sqrt{6}$$

$$S. \sqrt{98} = \sqrt{49 \cdot 2} = 7\sqrt{2}$$

$$U. \sqrt{48} = \sqrt{16 \cdot 3} = 4\sqrt{3}$$

$$O. \sqrt{125} = \sqrt{25 \cdot 5} = 5\sqrt{5}$$

$$W. \sqrt{162} = \sqrt{81 \cdot 2} = 9\sqrt{2}$$

$$A. 2\sqrt{18} = 2\sqrt{9 \cdot 2} = 2 \cdot 3\sqrt{2} = 6\sqrt{2}$$

$$O. 8\sqrt{28} = 8\sqrt{4 \cdot 7} = 8 \cdot 2\sqrt{7} = 16\sqrt{7}$$

$$G. -3\sqrt{1000} = -3\sqrt{100 \cdot 10} = -3 \cdot 10\sqrt{10} \\ = -30\sqrt{10}$$

$$E. 5\sqrt{75} = 5\sqrt{25 \cdot 3} = 5 \cdot 5\sqrt{3} = 25\sqrt{3}$$

$$D. -4\sqrt{490} = -4\sqrt{49 \cdot 10} = -4 \cdot 7\sqrt{10} \\ = -28\sqrt{10}$$

$$L. 9\sqrt{72} = 9\sqrt{36 \cdot 2} = 9 \cdot 6\sqrt{2} = 54\sqrt{2}$$

$$H. -7\sqrt{80} = -7\sqrt{16 \cdot 5} = -7 \cdot 4\sqrt{5} = -28\sqrt{5}$$

$$O. 3\sqrt{144} = 3 \cdot 12 = 36$$

$$Y. \sqrt{16n^2} = 4n$$

$$N. \sqrt{20n^2} = \sqrt{4 \cdot 5n^2} = 2n\sqrt{5}$$

$$H. \sqrt{49n^3} = \sqrt{49n^2 \cdot n} = 7n\sqrt{n}$$

$$T. \sqrt{63n^3} = \sqrt{9 \cdot 7n^2 \cdot n} = 3n\sqrt{7n}$$

$$O. \sqrt{36n^4} = 6n^2$$

$$L. -\sqrt{200n^4} = -\sqrt{100 \cdot 2n^2 \cdot n^2} \\ = -10n^2\sqrt{2}$$

$$P. \sqrt{900n^5} = \sqrt{900n^2 \cdot n^2 \cdot n} = 30n^2\sqrt{n}$$

$$G. \sqrt{60n^8} = \sqrt{4 \cdot 15n^2 \cdot n^2 \cdot n^2 \cdot n^2} \\ = 2n^4\sqrt{15}$$

$$O. \sqrt{25x^2y} = 5x\sqrt{y}$$

$$D. \sqrt{90x^4y^2} = \sqrt{9 \cdot 10x^2 \cdot x^2 \cdot y^2} = 3x^2y\sqrt{10}$$

$$G. \sqrt{81x^3y^4} = \sqrt{81x^2 \cdot x \cdot y^2 \cdot y^2} = 9xy^2\sqrt{x}$$

$$I. \sqrt{24x^3y^6} = \sqrt{4 \cdot 6x \cdot y^2 \cdot y^2 \cdot y^2} = 2xy^3\sqrt{6}$$

$$C. \sqrt{15xy^3} = \sqrt{15xy^2 \cdot y} = y\sqrt{15xy}$$

$$P. 3\sqrt{500x^3y^2} = 3\sqrt{100 \cdot 5x^2 \cdot y^2} \\ = 30x^2y\sqrt{5}$$

$$N. -2\sqrt{121x^3y} = -2 \cdot 11x \sqrt{xy} \\ = -22x\sqrt{xy}$$

$$H. 4\sqrt{44x^6y^5} = 4\sqrt{4 \cdot 11x^2 \cdot x^2 \cdot x^2 \cdot y^2 \cdot y} \\ = 8x^3y^2\sqrt{11y}$$