

# Do Elephants Know How to Gamble?



Simplify each expression below. Assume that all variables represent nonnegative numbers. Find your answer in the corresponding set of answer boxes. Print the letter of the exercise in the box above the answer.

T  $\sqrt{9x^2}$

E  $-\sqrt{49x^2}$

A  $\sqrt{4x^2y^2}$

H  $\sqrt{12x^2}$

O  $-\sqrt{45x^2}$

T  $\sqrt{25y^4}$

E  $-\sqrt{28x^4}$

Y  $\sqrt{16xy^2}$

V  $-\sqrt{20xy^2}$

D  $\sqrt{7x^2y}$

H  $\sqrt{9x^2y^4}$

N  $\sqrt{24x^4y^2}$

|        |              |       |             |                |              |               |                 |      |           |         |       |                |                 |
|--------|--------------|-------|-------------|----------------|--------------|---------------|-----------------|------|-----------|---------|-------|----------------|-----------------|
| $5y^2$ | $2x\sqrt{3}$ | $-7x$ | $4\sqrt{x}$ | $2xy\sqrt{6y}$ | $x\sqrt{7y}$ | $-3x\sqrt{5}$ | $2x^2y\sqrt{6}$ | $3x$ | $3x^2y^3$ | $3xy^2$ | $2xy$ | $-2y\sqrt{5x}$ | $-2x^2\sqrt{7}$ |
|        |              |       |             |                |              |               |                 |      |           |         |       |                |                 |

E  $\sqrt{a^3}$

T  $-\sqrt{40a^3}$

A  $\sqrt{54a^3b^2}$

E  $\sqrt{75a^2b^3}$

I  $\sqrt{144b^6}$

E  $-\sqrt{1000a^6}$

S  $\sqrt{18a^6b^2}$

H  $\sqrt{15a^8b^3}$

A  $\sqrt{a^5b^8}$

V  $2\sqrt{50ab^5}$

D  $8\sqrt{300a^4b^6}$

G  $5\sqrt{98a^{20}b^3}$

|                 |                  |                   |                  |                   |             |                      |                |               |                  |         |                    |                |                  |
|-----------------|------------------|-------------------|------------------|-------------------|-------------|----------------------|----------------|---------------|------------------|---------|--------------------|----------------|------------------|
| $-2a\sqrt{10a}$ | $a^4b\sqrt{15b}$ | $-10a^3\sqrt{10}$ | $40ab^3\sqrt{3}$ | $10b^2\sqrt{2ab}$ | $a\sqrt{a}$ | $35a^{10}b\sqrt{2b}$ | $3ab\sqrt{6a}$ | $3ab\sqrt{2}$ | $a^2b^2\sqrt{5}$ | $12b^3$ | $80a^2b^3\sqrt{3}$ | $5ab\sqrt{3b}$ | $a^2b^4\sqrt{a}$ |
|                 |                  |                   |                  |                   |             |                      |                |               |                  |         |                    |                |                  |