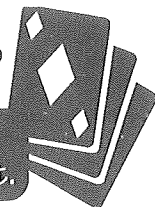


# Why Was the Deck of Cards Always in Trouble?



Simplify the expression. For each set of exercises, there is one extra answer. Write the letter of this answer in each box containing the number of that set.

|    |                                         |                                            |                            |                              |                         |   |   |   |    |   |   |   |    |   |    |   |
|----|-----------------------------------------|--------------------------------------------|----------------------------|------------------------------|-------------------------|---|---|---|----|---|---|---|----|---|----|---|
| 1  | a. $\frac{20x^5}{5x^3}$                 | b. $\frac{-28x^4}{7x}$                     | P $-4x^3$                  | O $-4x$                      | V $4x^2$                |   |   |   |    |   |   |   |    |   |    |   |
| 2  | a. $\frac{26m^8n^2}{13m^5n}$            | b. $\frac{-60m^9n^6}{-12mn^2}$             | I $5m^3n^2$                | A $2m^3n$                    | G $5m^8n^4$             |   |   |   |    |   |   |   |    |   |    |   |
| 3  | a. $\frac{2ab^5}{a^4b^2}$               | b. $\frac{-5a^2b^3}{10b^8}$                | F $\frac{2b^3}{a^3}$       | S $-\frac{2a^2}{b^3}$        | T $-\frac{a^2}{2b^5}$   |   |   |   |    |   |   |   |    |   |    |   |
| 4  | a. $\frac{(k^2e)^2}{k^3e}$              | b. $\frac{(ke)^2(ke^2)}{k^2e}$             | N $ke^3$                   | L $ke$                       | D $k^2e^2$              |   |   |   |    |   |   |   |    |   |    |   |
| 5  | a. $\frac{(-3c^3d)^2}{2cd^3}$           | b. $\frac{(-c)^3(-d^3)}{5c^8d}$            | A $\frac{9c^5}{2d}$        | R $\frac{d^2}{5c^5}$         | E $\frac{9d}{5c^3}$     |   |   |   |    |   |   |   |    |   |    |   |
| 6  | a. $\left(\frac{8x}{y^3}\right)^2$      | b. $\left(\frac{x^5}{-2y^2}\right)^3$      | B $-\frac{x^{15}}{8y^6}$   | T $\frac{x^8}{8y^8}$         | W $\frac{64x^2}{y^6}$   |   |   |   |    |   |   |   |    |   |    |   |
| 7  | a. $\left(\frac{6ab^3}{3c^2}\right)^2$  | b. $\left(\frac{a^2b^3c^4}{ac^2}\right)^3$ | R $\frac{4a^3b^9}{c^4}$    | N $a^3b^9c^6$                | V $\frac{4a^2b^6}{c^4}$ |   |   |   |    |   |   |   |    |   |    |   |
| 8  | a. $\frac{(-5vt)^2}{-5vt^2}$            | b. $\frac{15(v^2t)^5}{3v^{10}}$            | H $5vt^4$                  | L $-5v$                      | A $5t^5$                |   |   |   |    |   |   |   |    |   |    |   |
| 9  | a. $\frac{(-3wh^3)^2}{9w^5h^8}$         | b. $\frac{-w(-h)^4}{(-wh)^4}$              | J $-\frac{1}{w^2h^2}$      | F $-\frac{1}{w^3}$           | B $\frac{1}{w^3h^2}$    |   |   |   |    |   |   |   |    |   |    |   |
| 10 | a. $\left(\frac{5pq^3}{4p^3q}\right)^2$ | b. $\left(\frac{-3q^5}{pq}\right)^3$       | A $-\frac{27q^{12}}{p^3}$  | L $-\frac{27q^6}{p^4}$       | N $\frac{25q^4}{16p^4}$ |   |   |   |    |   |   |   |    |   |    |   |
| 11 | a. $\frac{(-2n)^5}{-2n^5}$              | b. $\frac{12n(-n)^3}{-60n^2}$              | G $\frac{n^2}{5}$          | B $16$                       | K $\frac{n}{8}$         |   |   |   |    |   |   |   |    |   |    |   |
| 12 | a. $\left(\frac{a^3}{7b^2}\right)^x$    | b. $\left(\frac{7a^x}{7b^y}\right)^x$      | P $\frac{a^{x^2}}{b^{xy}}$ | M $\frac{a^{3x}}{7^xb^{2x}}$ | W $\frac{a^{3x}}{7b^x}$ |   |   |   |    |   |   |   |    |   |    |   |
| 6  | 8                                       | 5                                          | 9                          | 1                            | 11                      | 5 | 7 | 3 | 12 | 5 | 7 | 5 | 12 | 2 | 10 | 4 |