

How Does the King's Son Write?

Simplify each expression. For each set of exercises, there is one extra answer. Write the letter of this answer in the corresponding box at the right.



<p>1</p> <p>a. $9x \cdot x^5$</p> <p>b. $5x^2 \cdot 4x^3$</p> <p>c. $(-8x^4)(-3x)$</p> <p>d. $(6x^4)(-x^6)$</p>	<p>(K) $24x^5$</p> <p>(O) $-6x^{10}$</p> <p>(A) $9x^6$</p> <p>(E) $24x^{10}$</p> <p>(L) $20x^5$</p> <p>5</p> <p>a. $(5p^2q^3)(p^5q)(2p^4q)$</p> <p>b. $(2p^5q^2)(9p^3)(-4p^8q)$</p> <p>c. $(-18q^6)(4p^4q)(-pq^3)$</p> <p>d. $3pq(-2q^5)(12p^9q^2)$</p> <p>(H) $72p^{10}q^{12}$</p> <p>(B) $-72p^{16}q^3$</p> <p>(G) $10p^{11}q^5$</p> <p>(L) $72p^5q^{10}$</p> <p>(M) $-72p^{10}q^8$</p>
<p>2</p> <p>a. $(7n^3)^2$</p> <p>b. $(-4n^8)^3$</p> <p>c. $(5n^4)^4$</p> <p>d. $(-2n^2)^6$</p>	<p>(W) $64n^{12}$</p> <p>(I) $625n^{12}$</p> <p>(U) $-64n^{24}$</p> <p>(B) $49n^6$</p> <p>(D) $625n^{16}$</p> <p>6</p> <p>a. $(8ut^3)^2(u^2t)^2$</p> <p>b. $(u^4t)^3(-2ut^5)^4$</p> <p>c. $(-ut^3)(-ut)^3$</p> <p>d. $(-u^2t)^4(-u^2t^4)$</p> <p>(W) $-u^{10}t^8$</p> <p>(T) $64u^6t^8$</p> <p>(F) u^4t^6</p> <p>(S) $16u^{16}t^{23}$</p> <p>(R) $-u^4t^8$</p>
<p>3</p> <p>a. $(4m^7d^2)^2$</p> <p>b. $(-9m^4d^3)^2$</p> <p>c. $(-m^2d^5)^3$</p> <p>d. $(-3md^9)^4$</p>	<p>(T) $16m^{14}d^4$</p> <p>(G) $-m^6d^{15}$</p> <p>(V) $81m^8d^6$</p> <p>(E) m^6d^8</p> <p>(R) $81m^4d^{36}$</p> <p>7</p> <p>a. $(3ab^2c^5)^3(a^3b^8c)^2$</p> <p>b. $(-bc^5)(a^4b^3c^9)(-ab^8)$</p> <p>c. $(-2ab)^3(ac^3)(11bc^2)$</p> <p>d. $(a^2bc)^5(a^2bc^5)$</p> <p>(D) $27a^9b^{22}c^{17}$</p> <p>(C) $-88a^4b^3c^6$</p> <p>(G) $a^{12}b^6c^{10}$</p> <p>(T) $-88a^4b^4c^5$</p> <p>(K) $a^5b^{12}c^{14}$</p>
<p>4</p> <p>a. $3xy(5x^2y)^2$</p> <p>b. $(-7y)(2xy^2)^3$</p> <p>c. $x^8y^3(-10x^5y^4)^2$</p> <p>d. $(xy^4)^4(-9y^3)$</p>	<p>(S) $-56x^3y^7$</p> <p>(N) $100x^{20}y^7$</p> <p>(C) $75x^5y^3$</p> <p>(F) $-9x^4y^{19}$</p> <p>(T) $100x^{18}y^{11}$</p> <p>8</p> <p>a. $(\frac{1}{2}k^8v^3)^2(60kv^4)$</p> <p>b. $(10k^5v)^3(\frac{1}{5}v^3)^2$</p> <p>c. $-(k^9v^2)(-15v^6)$</p> <p>d. $(-kv)^2(-kv)^3(-kv)^4$</p> <p>(P) $-15k^9v^9$</p> <p>(T) $40k^{15}v^9$</p> <p>(W) $15k^{17}v^{10}$</p> <p>(B) $-k^9v^9$</p> <p>(S) $15k^9v^8$</p>

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 $\frac{a^{3x}}{7^x b^{2x}}$	W $\frac{a^{3x}}{7b^x}$

6	8	5	9	1	11	5	7	3	12	5	7	5	12	2	10	4
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