

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>

What Do You Call a Bar of Soap That Doesn't Clean?

1 $x^2 \cdot x^5$

2 $7x^3 \cdot x$

3 $4x^4 \cdot 3x$

4 $x \cdot x^3 \cdot x^9$

5 $(-5x^7)(-6x^2)$

6 $x(-x^5)(-x^5)$

13 $(5m^3)(-m^8t^2)$

14 $(-4m^4t)(15t^5)$

15 $(11m^4t^9)(7mt)$

16 $(3m^2)(m^3t^3)(2mt^2)$

17 $(-8mt^4)(-2t)(m^4t^3)$

18 $3t^5(-mt)(20m^7)$

25 $(3x^2y^3)^2$

26 $(5x^4y)^3$

27 $(-7x^5y^2)^2$

28 $(-4xy^8)^3$

29 $(-2x^2y^3)^5$

30 $(3x^7y^2)^4$

7 $(ab^3)(a^3b)$

8 $(2ab)(3ab^5)$

9 $(-4ab^2)(9a^5b)$

10 $ab(-8a^3b^2)$

11 $(-2a^4b)(-7ab^6)$

12 $-3a(12a^2b^7)$

19 $(n^2)^3$

20 $(-n^5)^2$

21 $(5n^8)^2$

22 $(-2n^4)^3$

23 $(10n)^3$

24 $(-3n^9)^4$

31 $2kd(5k^2d)^2$

32 $-d(9kd^5)^2$

33 $(kd)^2(kd^2)$

34 $(2k)^4(-k^2)(-d)^2$

35 $(kd^8)(kd)^8(k^8d)$

36 $(-k^2d)^3(-k^2d^3)$