

WHY ISN'T A SNOWMAN VERY SMART?

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

6	3	6	2	10	10	8	1	4	7	9	2	5	8	10
---	---	---	---	----	----	---	---	---	---	---	---	---	---	----

1	<p>a. $n^2 \cdot n^3$</p> <p>b. $n^7 \cdot n^4$</p> <p>c. $2n^5 \cdot 5n$</p> <p>d. $10n^3 \cdot n^8$</p>	<p>Answers</p> <p>(C) $10n^6$</p> <p>(T) n^5</p> <p>(E) $10n^{11}$</p> <p>(O) $10n^8$</p> <p>(J) n^{11}</p>	<p>6</p>	<p>a. $\frac{m^8}{m^3}$</p> <p>b. $\frac{m^3}{m^8}$</p> <p>c. $\frac{40m^{11}}{8m^4}$</p> <p>d. $\frac{8m^4}{40m^{11}}$</p>	<p>Answers</p> <p>(G) $\frac{1}{m^5}$</p> <p>(H) $5m^{15}$</p> <p>(B) $\frac{1}{5m^7}$</p> <p>(T) m^5</p> <p>(M) $5m^7$</p>
2	<p>a. $(y^3)^2$</p> <p>b. $(y^5)^2$</p> <p>c. $(7y^2)^2$</p> <p>d. $(5y^4)^3$</p>	<p>Answers</p> <p>(B) $125y^{12}$</p> <p>(A) $15y^8$</p> <p>(R) y^{10}</p> <p>(U) $49y^4$</p> <p>(L) y^6</p>	7	<p>a. $t^6 \cdot t^5$</p> <p>b. $t^6 + t^5$</p> <p>c. $3t \cdot 8t^3$</p> <p>d. $3t + 8t^3$</p>	<p>Answers</p> <p>(K) $24t^4$</p> <p>(L) t^{11}</p> <p>(N) $3t + 8t^3$</p> <p>(B) $11t^8$</p> <p>(C) $t^6 + t^5$</p>
3	<p>a. $\frac{v^5}{v^2}$</p> <p>b. $\frac{v^9}{v^4}$</p> <p>c. $\frac{20v^8}{5v}$</p> <p>d. $\frac{44v^7}{11v^6}$</p>	<p>Answers</p> <p>(H) $4v$</p> <p>(N) v^5</p> <p>(I) v^3</p> <p>(T) $4v^7$</p> <p>(E) $4v^5$</p>	8	<p>a. $(15k)^2$</p> <p>b. $15k + 15k$</p> <p>c. $(2k^6)^5$</p> <p>d. $(2k^5)^6$</p>	<p>Answers</p> <p>(L) $30k$</p> <p>(D) $225k^2$</p> <p>(N) $30k^{30}$</p> <p>(R) $32k^{30}$</p> <p>(G) $64k^{30}$</p>
4	<p>a. $2a^3 \cdot 5a^3$</p> <p>b. $2a^3 + 5a^3$</p> <p>c. $9a^8 \cdot 4a^8$</p> <p>d. $9a^8 + 4a^8$</p>	<p>Answers</p> <p>(L) $10a^6$</p> <p>(N) $36a^{16}$</p> <p>(W) $13a^{16}$</p> <p>(D) $7a^3$</p> <p>(R) $13a^8$</p>	9	<p>a. $\frac{49x^7}{7x^2}$</p> <p>b. $\frac{49x^2}{7x^7}$</p> <p>c. $\frac{7x^7}{49x^2}$</p> <p>d. $\frac{7x^2}{49x^7}$</p>	<p>Answers</p> <p>(M) $\frac{x^5}{7}$</p> <p>(Y) $\frac{7}{x^5}$</p> <p>(U) $\frac{1}{7x^5}$</p> <p>(R) $7x$</p> <p>(L) $7x^5$</p>
5	<p>a. $(4q)^3$</p> <p>b. $4q + 4q + 4q$</p> <p>c. $(q^3)^4$</p> <p>d. $q^3 + q^3 + q^3 + q^3$</p>	<p>Answers</p> <p>(T) $12q$</p> <p>(I) $4q^{12}$</p> <p>(R) $64q^3$</p> <p>(P) $4q^3$</p> <p>(F) q^{12}</p>	10	<p>a. $(-w^3)^2$</p> <p>b. $(-w^3)^3$</p> <p>c. $(-w^3)^4$</p> <p>d. $(-w^3)^5$</p>	<p>Answers</p> <p>(T) w^6</p> <p>(F) w^{12}</p> <p>(D) $-w^{15}$</p> <p>(P) $-w^9$</p> <p>(S) $-w^{12}$</p>