What Happened to the Peanut Who Went Walking Late at Night?

Express each quotient below in simplest form. Find your answer in the answer column and notice the letter next to it. Write this letter in each box containing the number of that exercise.

(1) $\dfrac{12m^2n^5}{m+5} \div \dfrac{3m^3n}{m^2-25}$

(2) $\dfrac{n^2-9n+20}{6m^7n^2} \div \dfrac{5n-20}{10mn^2}$

(3) $\dfrac{m^2}{m^2-7m} \div \dfrac{1}{m^2-4m-21}$

(4) $\dfrac{16-2m}{m^2+2m-24} \div \dfrac{m-8}{3m+18}$

(5) $\dfrac{12n-36}{9-n^2} \div \dfrac{8n^5}{n^2+3n}$

(6) $\dfrac{m^2-n^2}{m^2+2mn+n^2} \div \dfrac{m^2n-mn^2}{7m^2}$

(7) $\dfrac{n^2-n-12}{2n^2-15n+18} \div \dfrac{3n^2-12n}{2n^3-9n^2}$

(8) $\dfrac{17mn^3}{m^2+2m-35} \div \dfrac{34m^8n^4}{m^2+7m}$

(9) $\dfrac{4n^3-25n}{3n^2-16n+5} \div (10n+25)$

(H) $7m(m-n)$

(N) $-3n^4(n-3)$

(T) $m(m+3)$

(D) $-\dfrac{3}{2n^4}$

(U) $\dfrac{4n^4(m-5)}{m}$

(R) $\dfrac{1}{2m^4n(m-7)}$

(S) $\dfrac{n(2n-9)(n+3)}{3(2n-3)(n-6)}$

(I) $-\dfrac{6}{m-4}$

(A) $\dfrac{n(2n-5)}{5(3n-1)(n-5)}$

(W) $\dfrac{7m}{n(m+n)}$

(L) $\dfrac{1}{2m^6n(m-5)}$

(E) $\dfrac{n-5}{3m^6}$

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

OBJECTIVE 5–g: To divide algebraic fractions.

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