What Do You Call a Message Printed on a Lion With Chickenpox?

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

(1) $\frac{x^3}{2y^2} \cdot \frac{6y^4}{xy}$

(2) $\frac{5xy^2}{4x^2} \cdot \frac{8x^3y}{15y^5}$

(3) $\frac{x^2+7x+12}{x-5} \cdot \frac{2x-10}{x+3}$

(4) $\frac{x^2-3x-10}{x+7} \cdot \frac{3x+21}{6x-30}$

(5) $\frac{x-1}{4xy^3} \cdot \frac{6x^2y}{1-x}$

(6) $\frac{13xy^2}{x^2+3x-18} \cdot \frac{x^2-9}{26x^4y^2}$

(7) $\frac{25-x^2}{14x^3y^8} \cdot \frac{7x^2y}{8x+40}$

(8) $\frac{2x^2+5x-7}{x+4} \cdot \frac{x^2+4x}{x^2-2x+1}$

(9) $\frac{2x+10}{32-8x} \cdot \frac{x^2-10x+24}{x^2-x-30}$

(10) $\frac{12x+48}{6x-15} \cdot \frac{4x^2-25}{x^2+9x+20}$

(G) $-\frac{3x}{2y^2}$	(O) $\frac{4(2x+5)}{x+5}$	(L) $\frac{x+3}{2x^3(x+6)}$
(F) $-\frac{x-4}{x+4}$	(H) $3x^2y$	(T) $-\frac{1}{4}$
(D) $\frac{2x^2}{3y^2}$	(I) $\frac{x+2}{2}$	(E) $2(x+4)$
(N) $\frac{x(2x+7)}{x-1}$	(S) $-\frac{x-5}{16xy^7}$	(A) $\frac{4(2x-5)}{3(x+4)}$

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

OBJECTIVE 5–e: To multiply algebraic fractions.

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Why Are Ancient Stories Like Feet?

Express each product below in simplest form. Find your answer in the answer column and notice the two letters next to it. Write these letters in the two boxes at the bottom of the page that contain the number of that exercise.

(1) $\dfrac{a^2-b^2}{a^4b}\cdot\dfrac{ab^2}{3a+3b}$

(2) $\dfrac{4-a}{5a}\cdot\dfrac{a^2+5a}{a^2+a-20}$

(3) $\dfrac{a^2+5ab+6b^2}{a^2-5ab+6b^2}\cdot\dfrac{10a-30b}{5a+10b}$

(4) $\dfrac{3a^2b-ab^2}{6a}\cdot\dfrac{9a^2}{9a^2-b^2}$

(5) $\dfrac{2a^2-13a+15}{8a^2-12a}\cdot\dfrac{6a-4a^2}{a^2-10a+25}$

(6) $\dfrac{-a^3+ab^2}{a^2}\cdot\dfrac{a^3+7a^2b}{a^2+6ab-7b^2}$

(7) $\dfrac{6a+24}{2a^2+5a-12}\cdot\dfrac{4a^2-9}{15a^2}$

(8) $\dfrac{8a-40}{40-3a-a^2}\cdot\dfrac{a-8}{2a^2-8a}$

(9) $\dfrac{27a^4b^7}{3a^2-6a+3}\cdot\dfrac{(a-1)^3}{9ab^3}$

ES	$3a^3b(a-1)$
OT	$-a(a+b)$
EG	$a^3b^4(a-1)$
HL	$\dfrac{3a^2b}{2(3a+b)}$
EB	$\dfrac{b(a-b)}{3a^3}$
TS	$-\dfrac{4(a-8)}{4a-8}$
DS	$-\dfrac{4(a-8)}{a(a+8)(a-4)}$
TH	$\dfrac{2(a+3b)}{a-2b}$
AR	$\dfrac{2(2a+3)}{5a^2}$
EN	$-\dfrac{1}{5}$
EY	$-\dfrac{2a-3}{2(a-5)}$

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

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