

GREATEST COMMON FACTOR

Date _____ Period _____

Factor the common factor out of each expression.

1) $-4a^4b + 18a^2b$

2) $-3m^4n - 4mn^3$

3) $-24xy^4 + 8x^2$

4) $-64yx^3 - 24y^3$

5) $-10u^9v^7 + 30u^7v$

6) $8yx + 40y$

7) $42x^4 - 60xy$

8) $-72x^2y + 16x^2$

9) $y^3x^2 + 8y^3 - 4y^2x + 9y^2$

10) $-63xy^4 + 63x^2 + 18y^2$

11) $-5v^4u + 2v^4 + 5v^3u - 10v^3$

12) $-81y^3x + 81yx^2 + 9y^3 + 54y$

13) $72x^3y + 8x^2y^2$

14) $7u^4v^4 + 28u^2v^4$

Diamond Math Problems

Name: _____ Date: _____



Complete the diamond problems. The top cell contains the *product* of the numbers in the left and right cells, while the bottom cell contains the *sum*.

(1) $\begin{array}{c} \diagup \quad \diagdown \\ +10 \quad -10 \\ \diagdown \quad \diagup \end{array}$

(2) $\begin{array}{c} \diagup \quad \diagdown \\ -6 \quad +12 \\ \diagdown \quad \diagup \end{array}$

(3) $\begin{array}{c} \diagup \quad \diagdown \\ +11 \quad -2 \\ \diagdown \quad \diagup \end{array}$

(4) $\begin{array}{c} \diagup \quad \diagdown \\ -3 \quad +10 \\ \diagdown \quad \diagup \end{array}$

(5) $\begin{array}{c} \diagup \quad \diagdown \\ +11 \quad -10 \\ \diagdown \quad \diagup \end{array}$

(6) $\begin{array}{c} \diagup \quad \diagdown \\ +6 \quad -7 \\ \diagdown \quad \diagup \end{array}$

(7) $\begin{array}{c} \diagup \quad \diagdown \\ -12 \quad +7 \\ \diagdown \quad \diagup \end{array}$

(8) $\begin{array}{c} \diagup \quad \diagdown \\ -9 \quad +4 \\ \diagdown \quad \diagup \end{array}$

(9) $\begin{array}{c} \diagup \quad \diagdown \\ -3 \quad +11 \\ \diagdown \quad \diagup \end{array}$

(10) $\begin{array}{c} \diagup \quad \diagdown \\ -4 \quad +11 \\ \diagdown \quad \diagup \end{array}$

(11) $\begin{array}{c} \diagup \quad \diagdown \\ +5 \quad +11 \\ \diagdown \quad \diagup \end{array}$

(12) $\begin{array}{c} \diagup \quad \diagdown \\ +12 \quad +10 \\ \diagdown \quad \diagup \end{array}$

(13) $\begin{array}{c} \diagup \quad \diagdown \\ +5 \quad -7 \\ \diagdown \quad \diagup \end{array}$

(14) $\begin{array}{c} \diagup \quad \diagdown \\ +6 \quad -3 \\ \diagdown \quad \diagup \end{array}$

(15) $\begin{array}{c} \diagup \quad \diagdown \\ +12 \quad +8 \\ \diagdown \quad \diagup \end{array}$

(16) $\begin{array}{c} \diagup \quad \diagdown \\ +8 \quad +5 \\ \diagdown \quad \diagup \end{array}$

(17) $\begin{array}{c} \diagup \quad \diagdown \\ -6 \\ -1 \\ \diagdown \quad \diagup \end{array}$

(18) $\begin{array}{c} \diagup \quad \diagdown \\ +6 \\ 5 \\ \diagdown \quad \diagup \end{array}$

(19) $\begin{array}{c} \diagup \quad \diagdown \\ +5 \\ 14 \\ \diagdown \quad \diagup \end{array}$

(20) $\begin{array}{c} \diagup \quad \diagdown \\ -84 \\ -12 \\ \diagdown \quad \diagup \end{array}$

(21) $\begin{array}{c} \diagup \quad \diagdown \\ -8 \\ 3 \\ \diagdown \quad \diagup \end{array}$

(22) $\begin{array}{c} \diagup \quad \diagdown \\ -36 \\ -4 \\ \diagdown \quad \diagup \end{array}$

(23) $\begin{array}{c} \diagup \quad \diagdown \\ -42 \\ -1 \\ \diagdown \quad \diagup \end{array}$

(24) $\begin{array}{c} \diagup \quad \diagdown \\ 8 \\ 6 \\ \diagdown \quad \diagup \end{array}$

(25) $\begin{array}{c} \diagup \quad \diagdown \\ -14 \\ 5 \\ \diagdown \quad \diagup \end{array}$

(26) $\begin{array}{c} \diagup \quad \diagdown \\ 12 \\ 7 \\ \diagdown \quad \diagup \end{array}$

(27) $\begin{array}{c} \diagup \quad \diagdown \\ -55 \\ 6 \\ \diagdown \quad \diagup \end{array}$

(28) $\begin{array}{c} \diagup \quad \diagdown \\ 32 \\ 12 \\ \diagdown \quad \diagup \end{array}$