

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)
$$\begin{array}{c} \diagup -99 \\ \diagdown -2 \end{array}$$

(2)
$$\begin{array}{c} \diagup -108 \\ \diagdown -3 \end{array}$$

(3)
$$\begin{array}{c} \diagup -132 \\ \diagdown 1 \end{array}$$

(4)
$$\begin{array}{c} \diagup -84 \\ \diagdown 5 \end{array}$$

(5)
$$\begin{array}{c} \diagup -48 \\ \diagdown 2 \end{array}$$

(6)
$$\begin{array}{c} \diagup -56 \\ \diagdown 1 \end{array}$$

(7)
$$\begin{array}{c} \diagup 40 \\ \diagdown 14 \end{array}$$

(8)
$$\begin{array}{c} \diagup -21 \\ \diagdown 4 \end{array}$$

(9)
$$\begin{array}{c} \diagup -99 \\ \diagdown 2 \end{array}$$

(10)
$$\begin{array}{c} \diagup 20 \\ \diagdown 9 \end{array}$$

(11)
$$\begin{array}{c} \diagup -90 \\ \diagdown -1 \end{array}$$

(12)
$$\begin{array}{c} \diagup -132 \\ \diagdown -1 \end{array}$$

(13)
$$\begin{array}{c} \diagup -121 \\ \diagdown 0 \end{array}$$

(14)
$$\begin{array}{c} \diagup -70 \\ \diagdown 3 \end{array}$$

(15)
$$\begin{array}{c} \diagup 72 \\ \diagdown 17 \end{array}$$

(16)
$$\begin{array}{c} \diagup 30 \\ \diagdown 13 \end{array}$$

(17)
$$\begin{array}{c} \diagup -66 \\ \diagdown -5 \end{array}$$

(18)
$$\begin{array}{c} \diagup 22 \\ \diagdown 13 \end{array}$$

(19)
$$\begin{array}{c} \diagup -90 \\ \diagdown -1 \end{array}$$

(20)
$$\begin{array}{c} \diagup -15 \\ \diagdown 2 \end{array}$$

Factoring Quadratics with decomposition: diamond math, multiply and add to equal

$$x^2 + 29x + 100$$

$$x^2 + 3x - 18$$

$$6x^2 - 13x + 6$$