

Name:

Date:

Block:

### Product Sum Worksheet

**Directions:** Give the product and the sum, highlight or circle that factors that satisfy both.

**Step 1:** List the multiples of the product

**Step 2:** Find the sum of each pair

**Step 3:** Choose the pair that multiplies to give the product **AND** adds to give the sum

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1.) Product: 14 Sum: 9

2.) Product: 16 Sum: 10

3.) Product: 6 Sum: 7

4.) Product: 12 Sum: -8

5.) Product: 35 Sum: -12

6.) Product: 3 Sum: -4

7.) Product: -21 Sum: 4

8.) Product: -30 Sum: 13

9.) Product: -15 Sum: 2

10.) Product: -30 Sum: -7

11.) Product: -20 Sum: -1

12.) Product: -16 Sum: -6

# 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) 
$$\begin{array}{ccc} & -27 & \\ +9 & \times & -3 \\ & 6 & \end{array}$$

(2) 
$$\begin{array}{ccc} & & \\ -10 & \times & +9 \\ & & \end{array}$$

(3) 
$$\begin{array}{ccc} & & \\ -1 & \times & +8 \\ & & \end{array}$$

(4) 
$$\begin{array}{ccc} & & \\ -2 & \times & +5 \\ & & \end{array}$$

(5) 
$$\begin{array}{ccc} & & \\ -4 & \times & +7 \\ & & \end{array}$$

(6) 
$$\begin{array}{ccc} & & \\ -2 & \times & +10 \\ & & \end{array}$$

(7) 
$$\begin{array}{ccc} & & \\ -2 & \times & +7 \\ & & \end{array}$$

(8) 
$$\begin{array}{ccc} & & \\ +5 & \times & -3 \\ & & \end{array}$$

(9) 
$$\begin{array}{ccc} & & \\ +10 & \times & +6 \\ & & \end{array}$$

(10) 
$$\begin{array}{ccc} & & \\ +4 & \times & -10 \\ & & \end{array}$$

(11) 
$$\begin{array}{ccc} & & \\ -10 & \times & +8 \\ & & \end{array}$$

(12) 
$$\begin{array}{ccc} & & \\ -8 & \times & +4 \\ & & \end{array}$$

(13) 
$$\begin{array}{ccc} & & \\ +10 & \times & \\ & 2 & \end{array}$$

(14) 
$$\begin{array}{ccc} & -32 & \\ & \times & -8 \\ & & \end{array}$$

(15) 
$$\begin{array}{ccc} & & \\ & \times & +4 \\ & -6 & \end{array}$$

(16) 
$$\begin{array}{ccc} & -63 & \\ +7 & \times & \\ & & \end{array}$$

(17) 
$$\begin{array}{ccc} & -24 & \\ & \times & +8 \\ & & \end{array}$$

(18) 
$$\begin{array}{ccc} & 8 & \\ +4 & \times & \\ & & \end{array}$$

(19) 
$$\begin{array}{ccc} & 50 & \\ +5 & \times & \\ & & \end{array}$$

(20) 
$$\begin{array}{ccc} & -36 & \\ -9 & \times & \\ & & \end{array}$$

(21) 
$$\begin{array}{ccc} & -40 & \\ & \times & \\ & -3 & \end{array}$$

(22) 
$$\begin{array}{ccc} & 14 & \\ & \times & \\ & 9 & \end{array}$$

(23) 
$$\begin{array}{ccc} & 10 & \\ & \times & \\ & 7 & \end{array}$$

(24) 
$$\begin{array}{ccc} & -9 & \\ & \times & \\ & 8 & \end{array}$$

(25) 
$$\begin{array}{ccc} & -36 & \\ & \times & \\ & 0 & \end{array}$$

(26) 
$$\begin{array}{ccc} & 60 & \\ & \times & \\ & 16 & \end{array}$$

(27) 
$$\begin{array}{ccc} & -72 & \\ & \times & \\ & -1 & \end{array}$$

(28) 
$$\begin{array}{ccc} & 9 & \\ & \times & \\ & 10 & \end{array}$$

# 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) 
$$\begin{array}{ccc} & 33 & \\ +3 & \times & +11 \\ & 14 & \end{array}$$

(2) 
$$\begin{array}{ccc} & & \\ +11 & \times & +7 \\ & & \end{array}$$

(3) 
$$\begin{array}{ccc} & & \\ -3 & \times & +5 \\ & & \end{array}$$

(4) 
$$\begin{array}{ccc} & & \\ -3 & \times & +8 \\ & & \end{array}$$

(5) 
$$\begin{array}{ccc} & & \\ +5 & \times & +1 \\ & & \end{array}$$

(6) 
$$\begin{array}{ccc} & & \\ +7 & \times & -1 \\ & & \end{array}$$

(7) 
$$\begin{array}{ccc} & & \\ +8 & \times & -5 \\ & & \end{array}$$

(8) 
$$\begin{array}{ccc} & & \\ +12 & \times & -5 \\ & & \end{array}$$

(9) 
$$\begin{array}{ccc} & & \\ & \times & +12 \\ & 10 & \end{array}$$

(10) 
$$\begin{array}{ccc} & -55 & \\ -11 & \times & \\ & & \end{array}$$

(11) 
$$\begin{array}{ccc} & 48 & \\ +12 & \times & \\ & & \end{array}$$

(12) 
$$\begin{array}{ccc} & 12 & \\ & \times & +6 \\ & & \end{array}$$

(13) 
$$\begin{array}{ccc} & -99 & \\ +11 & \times & \\ & & \end{array}$$

(14) 
$$\begin{array}{ccc} & -25 & \\ -5 & \times & \\ & & \end{array}$$

(15) 
$$\begin{array}{ccc} & -60 & \\ & \times & +12 \\ & & \end{array}$$

(16) 
$$\begin{array}{ccc} & -56 & \\ & \times & +8 \\ & & \end{array}$$

(17) 
$$\begin{array}{ccc} & & \\ & \times & +8 \\ & 19 & \end{array}$$

(18) 
$$\begin{array}{ccc} & -48 & \\ & \times & \\ & 2 & \end{array}$$

(19) 
$$\begin{array}{ccc} & -80 & \\ & \times & \\ & -2 & \end{array}$$

(20) 
$$\begin{array}{ccc} & -72 & \\ & \times & \\ & -1 & \end{array}$$

(21) 
$$\begin{array}{ccc} & 16 & \\ & \times & \\ & 10 & \end{array}$$

(22) 
$$\begin{array}{ccc} & 70 & \\ & \times & \\ & 17 & \end{array}$$

(23) 
$$\begin{array}{ccc} & -90 & \\ & \times & \\ & -1 & \end{array}$$

(24) 
$$\begin{array}{ccc} & -18 & \\ & \times & \\ & 7 & \end{array}$$

(25) 
$$\begin{array}{ccc} & 50 & \\ & \times & \\ & 15 & \end{array}$$

(26) 
$$\begin{array}{ccc} & -30 & \\ & \times & \\ & 1 & \end{array}$$

(27) 
$$\begin{array}{ccc} & 90 & \\ & \times & \\ & 19 & \end{array}$$

(28) 
$$\begin{array}{ccc} & 20 & \\ & \times & \\ & 9 & \end{array}$$