

Name: _____ Period: _____ Date: _____

Finding Greatest Common Factors

Find the greatest common factors of each.

1. $6x + 9 =$ _____

2. $18x^2 - 50 =$ _____

3. $12x^2 + 20x =$ _____

4. $20x^3 + 5x^2 =$ _____

5. $2x^3 - 7x^2 =$ _____

6. $12v^5 + 27v^4 =$ _____

7. $u^2v + uv^2 =$ _____

8. $30u^4 - 6u =$ _____

9. $8uv^4 - 14u^2v^3 =$ _____

10. $-10u^3v^2 + 5u^2v^5 =$ _____

11. $8a^3 + 4a^2 - 24a =$ _____

12. $21ab^3 + 14a^2b + 16ab^3 =$ _____

13. $2a^3b - 6a^2b^2 + 16ab^3 =$ _____

14. $45a^2b^4 - 60a^3b^2 - 15a^2b =$ _____

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)
$$\begin{array}{ccc} & 91 & \\ +13 & \times & +7 \\ & 20 & \end{array}$$

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

(3)
$$\begin{array}{ccc} & & \\ -19 & \times & +20 \\ & & \end{array}$$

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

(5)
$$\begin{array}{ccc} & & \\ -13 & \times & +16 \\ & & \end{array}$$

(6)
$$\begin{array}{ccc} & & \\ +13 & \times & -18 \\ & & \end{array}$$

(7)
$$\begin{array}{ccc} & & \\ +15 & \times & -10 \\ & & \end{array}$$

(8)
$$\begin{array}{ccc} & & \\ +4 & \times & -10 \\ & & \end{array}$$

(9)
$$\begin{array}{ccc} & & \\ +8 & \times & -20 \\ & & \end{array}$$

(10)
$$\begin{array}{ccc} & & \\ +8 & \times & +2 \\ & & \end{array}$$

(11)
$$\begin{array}{ccc} & & \\ +20 & \times & -18 \\ & & \end{array}$$

(12)
$$\begin{array}{ccc} & & \\ -19 & \times & +12 \\ & & \end{array}$$

(13)
$$\begin{array}{ccc} & & \\ +1 & \times & +16 \\ & & \end{array}$$

(14)
$$\begin{array}{ccc} & -72 & \\ -6 & \times & \\ & & \end{array}$$

(15)
$$\begin{array}{ccc} & -36 & \\ -2 & \times & \\ & & \end{array}$$

(16)
$$\begin{array}{ccc} & & +4 \\ & \times & \\ & -12 & \end{array}$$

(17)
$$\begin{array}{ccc} & 28 & \\ +14 & \times & \\ & & \end{array}$$

(18)
$$\begin{array}{ccc} & & \\ +11 & \times & \\ & 17 & \end{array}$$

(19)
$$\begin{array}{ccc} & & +7 \\ & \times & \\ & 6 & \end{array}$$

(20)
$$\begin{array}{ccc} & & +18 \\ +18 & \times & \\ & 20 & \end{array}$$

(21)
$$\begin{array}{ccc} & & -8 \\ & \times & \\ & 7 & \end{array}$$

(22)
$$\begin{array}{ccc} & -238 & \\ -17 & \times & \\ & & \end{array}$$

(23)
$$\begin{array}{ccc} & & -17 \\ & \times & \\ & -11 & \end{array}$$

(24)
$$\begin{array}{ccc} & & -40 \\ & \times & \\ & 3 & \end{array}$$

(25)
$$\begin{array}{ccc} & -35 & \\ & \times & \\ & 2 & \end{array}$$

(26)
$$\begin{array}{ccc} & -108 & \\ & \times & \\ & -3 & \end{array}$$

(27)
$$\begin{array}{ccc} & 33 & \\ & \times & \\ & 14 & \end{array}$$

(28)
$$\begin{array}{ccc} & 72 & \\ & \times & \\ & 22 & \end{array}$$