

MathFLIX CHALLENGE

Integer Computation

Use the code in the columns below to solve the 3 puzzles at the bottom of the page. Here are some rules to help you:

Rules for Multiplication and Division: If the numbers in the equation have the same sign, the answer will be positive. If the numbers have different signs, the answer will be negative.

Rules for Addition: Numbers with the same signs should be added together. Numbers with different signs should be subtracted. Always use the sign of the larger number.

Rules for Subtraction: Subtracting a negative number is the same as adding its opposite. To solve: 1) reverse the sign of the subtrahend (second number); and 2) change the equation to addition. Then, simply follow the rules for addition!

Multiplication & Division

$$A = +4 \times +5 = +20$$

$$B = -4 \times -3 = +12$$

$$C = -4 \times +3 = -12$$

$$D = +4 \times -5 = -20$$

$$E = -25 \div -5 = +5$$

$$F = +25 \div -5 = -5$$

$$G = -36 \div -6 = +6$$

$$H = 100 \div 10 = \underline{\quad}$$

$$I = -100 \div 10 = \underline{\quad}$$

$$J = 100 \times -10 = \underline{\quad}$$

$$K = -40 \times 10 = \underline{\quad}$$

$$L = -50 \times -10 = \underline{\quad}$$

Addition

$$M = +5 + +6 = +11$$

$$N = -5 + -6 = -11$$

$$O = -5 + +6 = +1$$

$$P = +5 + -6 = -1$$

$$Q = +6 + +1 = \underline{\quad}$$

$$R = -6 + -1 = \underline{\quad}$$

$$S = +6 + -2 = \underline{\quad}$$

$$T = -6 + +2 = \underline{\quad}$$

Subtraction

$$U = +6 - -3 \\ (+6 + +3) = 9$$

$$V = +6 - +3 \\ (+6 + -3) = +3$$

$$W = -6 - -3 \\ (-6 + +3) = -3$$

$$X = -6 - +3 \\ (-6 + -3) = -9$$

$$Y = +5 - -3 \\ (+5 + +3) = \underline{\quad}$$

$$Z = -5 - +3 \\ (\underline{\quad} + \underline{\quad}) = \underline{\quad}$$

#1

$$\begin{array}{cccccccccccccccc} \overline{-4} & \overline{10} & \overline{5} & & \overline{7} & \overline{9} & \overline{-10} & \overline{-12} & \overline{-400} & & \overline{12} & \overline{-7} & \overline{1} & \overline{-3} & \overline{-11} & & \overline{-5} & \overline{1} & \overline{-9} & & \overline{-1000} & \overline{9} & \overline{11} & \overline{-1} & \overline{5} & \overline{-20} \\ \overline{1} & \overline{3} & \overline{5} & \overline{-7} & & \overline{-4} & \overline{10} & \overline{5} & \overline{500} & \overline{20} & \overline{-8} & \overline{8} & & \overline{-20} & \overline{1} & \overline{6} & \overline{4} & & & & & & & & & & \end{array}$$

#2

$$\overline{11} \quad \overline{20} \quad \overline{-4} \quad \overline{10} \quad \overline{-10} \quad \overline{4} \quad \overline{-1} \quad \overline{1} \quad \overline{-3} \quad \overline{5} \quad \overline{-7}$$

#3

$$\overline{-12} \quad \overline{1} \quad \overline{9} \quad \overline{-11} \quad \overline{-4} \quad \overline{-20} \quad \overline{1} \quad \overline{-3} \quad \overline{-11} \quad \cdot \quad \overline{500} \quad \overline{9} \quad \overline{-12} \quad \cdot \quad \overline{5} \quad \overline{-20} \quad \overline{9}$$