

Multiplying and Dividing Integers – There’s a Pattern!

Write each positive in pencil

Write each negative in red
(trace over the negatives in the examples)

Look for the Pattern!

$+2(+5) = +10$ $+2(-5) = -10$ $-2(+5) = -10$ $-2(-5) = +10$	$\frac{+10}{+2} = +5$ $\frac{-10}{+2} = -5$ $\frac{+10}{-2} = -5$ $\frac{-10}{-2} = +5$	$+3(+4) = +12$ $+3(-4) = -12$ $-3(+4) = -12$ $-3(-4) = +12$	$\frac{+12}{+4} = +3$ $\frac{-12}{+4} = -3$ $\frac{+12}{-4} = -3$ $\frac{-12}{-4} = +3$
$+3() = +18$ $+3(-6) =$ $(+6) = -18$ $-3() = +18$	$\frac{+18}{+6} = +6$ $\frac{-18}{+3} =$ $\frac{-18}{-3} = -6$ $\frac{-18}{-3} =$	$+4() = +24$ $-4(+6) =$ $(-6) = -24$ $-4(-6) =$	$\frac{+24}{+4} =$ $\frac{-24}{+6} = -6$ $\frac{-24}{-6} = -4$ $\frac{-24}{-6} =$
$+3(+5) =$ $-9() = -18$ $+5(-5) =$ $+4() = +20$	$-1(+9) =$ $+10() = -90$ $-8(-5) =$ $-3() = +21$	$\frac{-15}{+3} =$ $\frac{-4}{-4} = -2$ $\frac{-40}{+8} = +4$ $\frac{-45}{+5} =$	$\frac{+18}{-9} =$ $\frac{+25}{-5} = -5$ $\frac{-7}{+8} = -7$ $\frac{-36}{-6} = -6$

Evaluate each expression if $r=+12$, $s=-4$, $t=-6$

$$\frac{r}{s} =$$

$$\frac{r(s)}{+16} =$$

$$\frac{t-r}{3} =$$

$$\frac{8-r}{-2} =$$

Evaluate each expression if $a=-10$, $b=+4$, $c=-5$

$$\frac{a}{c} =$$

$$\frac{a(b)}{c} =$$

$$\frac{a-b}{-2} =$$

$$\frac{-18+a}{b} =$$