2.4 Rules for Dividing Integers

Tuesday, September 29, 2015   8:33 AM

For any multiplication of 2 different factors, there are 2 related division facts:

For $4 \times 3 = 12$, the related division facts are:

$12 \div 3 = 4$ _____ and $12 \div 4 = 3$ _____ .

The same rules apply to the product of 2 integers.

For $(-2)(+5) = -10$, the related division facts are:

$(-10) \div (5) = -2$ _____ and $(-10) \div (-2) = +5$ _____ (dividend ÷ divisor = quotient)

The quotient of 2 integers with the __SAME__ sign is **always** __POSITIVE__ .

$(+10) \div (+2) = +5$ $(-10) \div (-2) = +5$

The quotient of 2 integers with __DIFFERENT__ signs is **always** __NEGATIVE__ .

$(+10) \div (-2) = -5$ $(-10) \div (+2) = -5$

A division expression can be written using a division sign, $(-24) \div (-6)$, or it can be written as a fraction, $\dfrac{(-24)}{(-6)} = +4$

TRY THIS. $\dfrac{+96}{-6} \Rightarrow$ $6\overline{)96}$ $= 16$

$\dfrac{}{} = -16$

$\begin{array}{r} 16 \\ 6\overline{)96} \\ -6 \\ \hline 36 \\ -36 \\ \hline 0 \end{array}$

Assignment: ① Worksheet 2.1 – 2.4 for marks, due in class.

② p 87-89 #4, 5, 7-9, 11, 12, 23

CH. 2 TEST THURSDAY OCT. 8