

Name: _____

Date: _____

Aim: How do we evaluate expressions with Rational Numbers?

Do Now:

Evaluate each expression.

a) $-3.1 + 1.2$	b) $-\frac{1}{4}(5)$	c) $-1\frac{1}{4} \times -\frac{2}{3}$
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Evaluating Algebraic Expressions

Evaluate each expression when $a = \frac{2}{3}$, $b = -6$, $c = 0.1$ and $d = -1.12$.

a) $\frac{b}{a}$	b) $ab - cd$	c) $b + \frac{d}{c}$
d) $ab^2 - d$	e) ac	

The order of operations holds true for ALL real numbers!

f) $\frac{1}{2} \left(\frac{-1}{2} + \frac{4}{5} \right)$	g) $\frac{3}{2} \cdot -3\frac{1}{2} \div \frac{-6}{5}$	h) $\frac{-5\frac{1}{2} \cdot 4}{-3\frac{1}{2} + \frac{1}{2}}$
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Evaluate each of the following where $a = 3$, $b = -4$, $c = -\frac{1}{2}$.

i) $-3ab + c$

j) $2b^2 - (-a)$

Extra Practice

Use the order of operations to evaluate each expression.

k.) $\frac{1}{2} - \left(-\frac{1}{2}\right)^2 + \frac{3}{7}$

l.) $\left[1\frac{1}{5} + (-1.2)\right](-5.4 + 1.2)$

m.) $-3\frac{2}{5} \div \left(1\frac{1}{4} + \frac{-1}{2}\right)$

n.) $1.7 - [(2.1 + (-3.5))]^2$



The _____ apply to all real numbers.

