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Objective: How can we use real number properties to make our lives easier.

Homework: 1 question worksheet
Math 7R: Notes
Date:_________________

USING PROPERTIES TO PERFORM OPERATIONS WITH
RATIONAL NUMBERS

Do Now:

A) 20 - 42

Can you rewrite 20 - 42 as an ADDITION expression?

Subtracting is adding the inverse!

Important Mathematical FACT!

Let's take a look at a few more mathematical expressions:

B) 15 - 157 - 15 = ___

C) - 6 + 20 - 12 + 52 = ___

D) \( \frac{2}{3} \cdot (-20) \cdot 30 \cdot \left( -\frac{3}{4} \right) = ___ \)
Evaluate each expression EFFICIENTLY!!

2) \(-5.2 \cdot (-3.1) + 5.2\)

\[-5.2 + 3.1 + 5.2 = 0\]

3) \(5 + (-4\frac{4}{7})\)

\[5 - 4\frac{4}{7} = \frac{3}{7}\]

4) \(80 + (-22\frac{4}{15})\)

5) \(3\frac{1}{6} + 20.3 + 8 + \frac{1}{8}\)

\[8 + \frac{1}{8} + 20.3 + 8 + \frac{1}{8} = 29.3\]

6) \(\frac{1}{5} + 20.3 - (-5\frac{3}{5})\)
1. Evaluate the following expression using the ORDER of OPERATIONS:

\[-2 \times (-2) + \left(-\frac{1}{4}\right) \times 5\]

Now, evaluate the same expression using a more efficient way!

Which way do you prefer? Why?