Warm-up

January 13, 2020

1. Group and simplify

$$(2n^{2}-6)-(5+5n^{2})+(5n^{2}+3)$$

$$2n^{2}-6-5-5n^{2}+5n^{2}+3$$

$$2n^{2}-6-5-5n^{2}+5n^{2}-6-5+3$$

$$2n^{2}-6-5+3$$

$$2n^{2}-8$$

2. Simplify

a)
$$6(p-3)$$
 $6(p-18)$

b)
$$8x(4x-8)$$

Chapter 3 Rational #'s

Order from least to greatest [record your answer in its original form]

$$-\frac{2}{5} - \frac{2}{5}, -1.3, \frac{-5}{3}, \sqrt{3}, -0.3, 0.57, -\frac{1}{6}$$

$$-\frac{5}{5} - \frac{1}{5}, -\frac{1}{5}, -\frac{2}{5}, -0.3, -\frac{1}{7}, 0.57, \sqrt{3}$$

Rational NumbersStops [terminates]					
	1, 2, 3		Repeats		
	Natural	Whole	Integers	Rational	Irrational
a) -4.3				V	
b) J3=1.7			,		
c) - 27 = -4					
d) 1.43621					
e) 14		V			•
f) 0	l				l

Solve each of the following making sure to express your answer in lowest terms and mixed number if needed:

$$\frac{1}{2} + \left(-\frac{1}{4} \right)$$

$$\frac{2}{2} + \left(-\frac{1}{4} \right)$$

$$\frac{2}{10} + \frac{9}{2} \times 5$$

$$\frac{24}{10} + \frac{45}{10}$$

$$\frac{21}{10} + \frac{21}{10}$$

$$\frac{10}{7}\left(-\frac{13}{8}\right)$$

$$\frac{10}{7} \times \frac{-13}{8}$$

$$-\frac{130}{56} = -\frac{130}{2}$$

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Lowest terms mixed # when needed.

$$\begin{pmatrix}
\frac{1}{3} \\
-4 \\
-4 \\
-5
\end{pmatrix}
\begin{pmatrix}
-2 \\
-12
\end{pmatrix}$$

$$-\frac{2^{3}}{5} \times -\frac{2^{9}}{12}$$

$$-\frac{667}{60}$$

$$120$$

$$3\frac{1}{4} - \left(-2\frac{2}{3}\right)$$

$$x^{3} \frac{13}{4} - \frac{8 \times 4}{3 \times 4}$$

$$\frac{39}{12} - \frac{32}{12}$$

$$\frac{71}{12} - \frac{51/2}{12}$$

$$\begin{pmatrix}
-2\frac{1}{5} \\
-\frac{11}{5} \\
-\frac{19}{5}
\end{pmatrix}$$

$$\begin{array}{c}
-\frac{11}{5} \\
-\frac{19}{5}
\end{array}$$

$$\begin{array}{c}
-\frac{11}{5} \\
4\frac{4}{95}
\end{array}$$

SOLVE...REMEMBER ORDERS OF OPERATION!!!

BEDMAS

$$3^{2}$$
 - 14 + 8 x 2 - 3^{2} + (-8 - 7) x 5
 $9 - 14 + 8 \times 2 - 9 + -15 \times 5$
 $9 - 14 + 16 - 9 + -15 \times 5$
 $9 - 14 + 16 - 9 + -75$

$$\frac{320000}{3} \times \left(-\frac{1}{2}\right) + \frac{5}{6}$$

$$\frac{-2}{6} + \frac{5}{6}$$

$$\frac{3}{6} = \frac{1}{2}$$

$$\frac{3}{8} - \frac{9}{4} \div \left[\left(\frac{\sqrt{55}}{\sqrt{44}} \right) + \left(-\frac{1}{10} \right)^{\frac{1}{2}} \right]$$

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$$\frac{3}{8} - \frac{9}{4} \div \left[\left(\frac{\sqrt{55}}{\sqrt{24}} \right) + \left(-\frac{1}{10} \right)^{\frac{1}{2}} \right]$$

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$$\frac{3}{8} - \frac{9}{4} \div \left[\frac{\sqrt{25}}{\sqrt{24}} \right]$$

$$\frac{3}{8} - \frac{9}{4} \div \left[\frac{\sqrt{25}}$$

$$-4\frac{2}{3} \div \left[\left(-\frac{1}{3} \right) + 4\frac{1}{6} \right] + \left(-3\frac{2}{5} \right)$$

$$-\frac{14}{3} \div \left(\frac{1}{2} + \frac{25}{6} \right) + \frac{17}{5}$$

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$$-\frac{14}{3} \div \left(\frac{1}{2} + \frac{17}{5} \right) + \frac{17}{5} \div \left(\frac{1}{2} + \frac{17}{5} \right)$$

$$-\frac{14}{3} \div \left(\frac{1}{2} + \frac{17}{5} \right) + \frac{17}{5} \div \left(\frac{1}{2} + \frac{17}{5} + \frac{17}{5} \right) + \frac{17}{5} \div \left(\frac{1}{2} + \frac{17}{5} + \frac{17}{5} + \frac{17}{5} \right)$$

$$-\frac{14$$