

January 15, 2019

1. Group and simplify

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

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

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

$$2n^2 - 8$$

2. Simplify

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

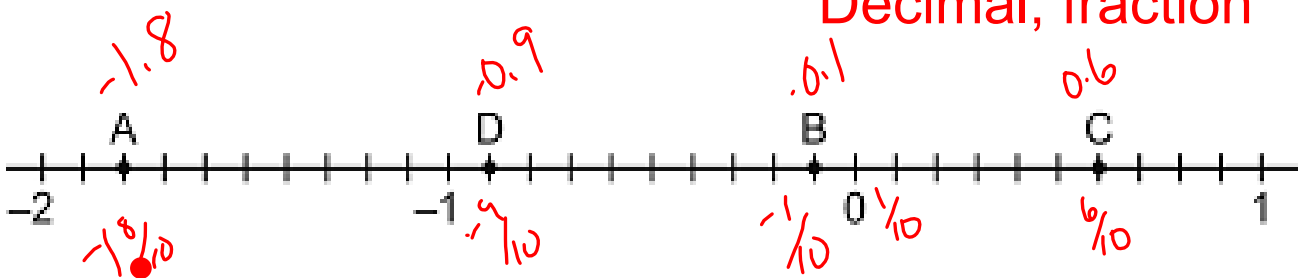
$$6p - 18$$

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

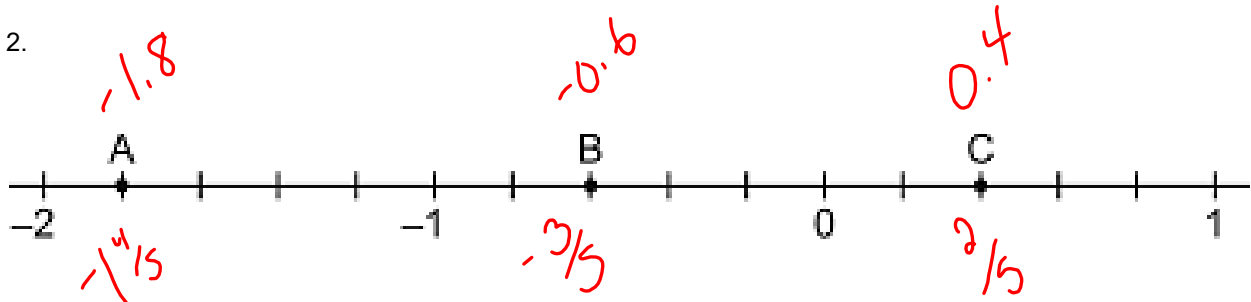
$$32x^2 - 64x$$

1. Find the number represented by A, B, C, D

Decimal, fraction



2.



Lowest terms mixed # when needed.

$$\left(-4\frac{3}{5}\right)\left(-2\frac{5}{12}\right)$$

$$-\frac{23}{5} \times -\frac{29}{12}$$

$$\frac{667}{60} = 11\frac{7}{60}$$

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

$$\overset{\times 3}{\times 3} \frac{13}{4} - - \frac{8 \times 4}{3 \times 4}$$

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

$$\frac{7}{12} =$$

$$\textcircled{5\frac{11}{12}}$$

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

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$$\frac{-11}{5} \div \frac{-19}{4}$$

$$\frac{-11}{5} \times \frac{4}{19}$$

$$\frac{44}{95}$$

**SOLVE...REMEMBER ORDERS OF OPERATION!!!**

**BEDMAS**

$$3^2 - 14 + 8 \times 2 - 3^2 + (-8 - 7) \times 5$$

$$9 - 14 + \boxed{8 \times 2} - 9 + \boxed{-15 \times 5}$$

$$9 - 14 + 16 - 9 + -75$$

$$\boxed{-73}$$

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

$$\frac{2}{3} \times -\frac{1}{2} + \frac{5}{6}$$

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

$$\frac{3}{6} = \left( \frac{1}{2} \right)$$

$$\frac{3}{8} - \frac{9}{4} \div \left[ \left( \frac{x^5 5}{x^5 4} \right) + \left( -\frac{1x^2}{10x^2} \right) \right]$$

$$\frac{3}{8} - \frac{9}{4} \div \left( \frac{-25}{20} + \frac{-2}{20} \right)$$

$$\frac{3}{8} - \frac{9}{4} \div \frac{-27}{20}$$

$$\begin{array}{r} \frac{3}{8} - \frac{9}{4} \times \frac{20}{27} \\ \times 27 \quad \frac{3}{8} - \frac{180}{108} \times 2 \\ \times 27 \quad \frac{81}{216} - \frac{360}{216} \end{array}$$

$$\frac{81}{216} - \frac{360}{216}$$

$$\frac{441}{216} = 2 \frac{9}{216}$$

$$2 \frac{1}{24}$$



Complete the chart...

	Natural	Whole	Integers	Rational	Irrational
A. -2			✓	✓	
B. $\frac{1}{2} = 0.5$				✓	
C. -4.2				✓	

$$-4\frac{2}{3} \div \left[ \left( -\frac{1}{3} \right) + 4\frac{1}{6} \right] + \left( -3\frac{2}{5} \right) \quad \text{---4 71/115}$$

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

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

$$\boxed{-\frac{14}{3} \div \frac{23}{6} + \frac{-17}{5}}$$

$$\frac{-14}{3} \times \frac{6}{23} + \frac{-17}{5}$$

$$\frac{-84}{69} + \frac{-17 \times 6}{5 \times 6}$$

$$\frac{-420}{345} + \frac{-1173}{345} = \frac{-1593}{345}$$

$$-4\frac{213}{345}$$

$$\text{---4 71/115}$$

**DO NOT MARK ON SHEETS!!!**

# Chapter 3 Review

