

Order of Operations

with

Rational Numbers




$$(-0.8) + 1.2 \div (-0.3) \times 1.5$$

$$= (-0.8) + -4 \times 1.5$$

$$= (-0.8) + -6$$

$$= -6.8$$



4.  $\left(-\frac{1}{2}\right)^2 - \left(-\frac{2}{3}\right) \div \left[\frac{1}{3} + \left(-\frac{3}{12}\right)\right]$

BEDMAS

Please erase to reveal answer

$$= \left(-\frac{1}{2}\right)^2 - \left(-\frac{2}{3}\right) \div \left[\frac{4}{12} + \left(-\frac{3}{12}\right)\right]$$



$$= \left(-\frac{1}{2}\right)^2 - \left(-\frac{2}{3}\right) \div \left[\frac{1}{12}\right]$$

$$= \left(+\frac{1}{4}\right) - \left(-\frac{2}{3}\right) \div \left[\frac{1}{12}\right]$$

$$= \left(+\frac{1}{4}\right) - \left(-\frac{2}{3}\right) \times \frac{12}{1}$$

$$= \left(+\frac{1}{4}\right) - \left(-\frac{2}{3}\right) \times \frac{12}{1}$$

$$= \left(+\frac{1}{4}\right) - \left(-\frac{8}{1}\right)$$

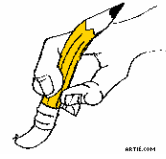
$$\left(+\frac{1}{4}\right) - \left(-\frac{32}{4}\right)$$

=

$$\frac{33}{4}$$

Using the Order of Operations with Fractions

Remember fractions are just numbers



$$1) \left(-\frac{3}{5}\right)\left(\frac{2}{5}\right) - \left(\frac{7}{30}\right) \div \left[\frac{1}{2} + \left(-\frac{1}{6}\right)\right]$$

$$\left(-\frac{3}{5}\right)\left(\frac{2}{5}\right) - \left(\frac{7}{30}\right) \div \left[\frac{3}{6} + \left(-\frac{1}{6}\right)\right]$$

$$\left(-\frac{3}{5}\right)\left(\frac{2}{5}\right) - \left(\frac{7}{30}\right) \div \left[\frac{2}{6}\right]$$

$$\left(-\frac{3}{5}\right)\left(\frac{2}{5}\right) - \left(\frac{7}{30}\right) \div \left[\frac{1}{3}\right]$$

$$\left(\frac{-6}{25}\right) - \left(\frac{7}{30}\right) \times \left[\frac{3}{1}\right]$$

$$\left(\frac{7}{10}\right) \times \left[\frac{1}{1}\right]$$

$$\frac{-6}{25} - \frac{7}{10}$$

$$\frac{-12}{50} - \frac{35}{50}$$

$$\frac{-47}{50}$$

 *Do we need more practice?*

1)

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

Remember to switch mixed to
improper fractions

Make common denominators
inside brackets

Complete Brackets

Multiply

3. The following formula is used to convert Fahrenheit to Celsius, where C represents celsius and the F is Fahrenheit.



$$C = \frac{F - 32}{1.8}$$

Use the formula to convert 18°F to Celsius.

ERASE to see answer

$$C = \frac{18 - 32}{1.8} \quad \frac{18}{1.8} - \frac{32}{1.8}$$

$$C = \frac{-14}{1.8}$$

$$C = -7.77$$

Class / Homework

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3,5

7 a,b d

8 a,b

10

12 a,d

13 a,d

Write out the questions and show all work!
(Hint take your time and do one step at a time)