

Curriculum Outcome

N1: Demonstrate an understanding of rational numbers by: comparing and ordering rational numbers; solving problems that involve arithmetic operations on rational numbers.

Student Friendly:

"BEDMAS with fractions and decimals"



Grade 9 Warm Up



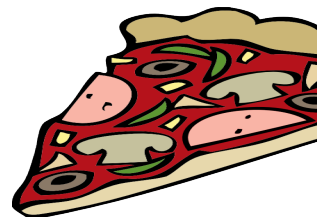
1) Determine the missing number in each statement. (Show Work)

a) $\underline{\hspace{2cm}} \div 18.6 = 2.1$

b) $\underline{\hspace{2cm}} \times -2.5 = 7.35$

c) $\frac{3}{4} \div \boxed{} = \frac{7}{12}$

d) $\boxed{} \div \frac{2}{5} = \frac{3}{7}$





Grade 9 Warm Up



1) Determine the missing number in each statement. (Show Work)

$$\boxed{15} \div 3 = 5$$

$$\boxed{} = 3 \times 5$$

$$\boxed{3} \times 4 = 12$$

$$\boxed{} = 12 \div 4$$

a) $\boxed{} \div 18.6 = 2.1$

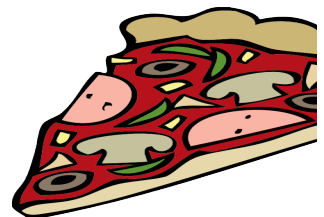
$$\boxed{} = 18.6 \times 2.1$$

$$\boxed{} = 39.06$$

b) $\boxed{} \times -2.5 = 7.35$

$$\boxed{} = 7.35 \div (-2.5)$$

$$\boxed{} = -2.94$$



$$15 \div \boxed{3} = 5$$

$$\boxed{3} = 15 \div 5$$

$$\boxed{15} \div 3 = 5$$

$$\boxed{15} = 3 \times 5$$

$$c) \frac{3}{4} \div \boxed{} = \frac{7}{12}$$

$$\boxed{} = \frac{3}{4} \div \frac{7}{12}$$

$$\boxed{} = \frac{3}{4} \times \frac{12}{7}$$

$$\boxed{} = \frac{3}{1} \times \frac{3}{7}$$

$$\boxed{} = \frac{9}{7}$$

$$d) \boxed{} \div \frac{2}{5} = \frac{3}{7}$$

$$\boxed{} = \frac{2}{5} \times \frac{3}{7}$$

$$\boxed{} = \frac{6}{35}$$



Section 3.6

Order of Operations with Rational Numbers

Remember from
operations

"BEDMAS".....order of
↓ ↓

In the order that
they appear

Order of Operations

with

Rational Numbers

BEDMAS



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

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

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

$$= -6.8$$

$$\left(\frac{2}{3}\right)^{12} = \frac{4096}{531441}$$

$$\frac{6}{5} \times \left(\frac{1}{4} + \frac{1}{4} \right)^2 - \frac{3}{20} \div \frac{2}{5}$$

$$\left(\frac{2}{4} \right)^2$$

$$\frac{6}{5} \times \left(\frac{1}{2} \right)^2 - \frac{3}{20} \div \frac{2}{5}$$

$$\frac{6}{5} \times \left(\frac{1}{2} \right)^2 - \frac{3}{20} \div \frac{2}{5}$$

$$\frac{3}{10} - \frac{3}{20} \times \frac{5}{2}$$

$$\frac{3}{10} - \frac{3}{8}$$

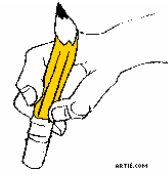
$$\frac{12}{40} - \frac{15}{40}$$

$$-\frac{3}{40}$$

Using the Order of Operations with Fractions

Remember fractions are just numbers

BEDMAS



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

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

$$\left[\frac{2}{6}\right]$$

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

$$\frac{-6}{25} - \frac{7}{30} \times \frac{3}{1}$$

$$\frac{7}{10} \times \frac{1}{1}$$

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

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

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

Class / Homework

Page 140 & 141

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

Questions

3,
4, *a*

