pg 63: Exp. 11–15, 16, 17, 19, 21, 22, 24

11) $\frac{9}{1}$

12) $-\frac{2}{3}$

13) $-\frac{34}{10}$

14) $\frac{15}{8}$

15) $\frac{2}{1}$

16) Comm. Prop. Add

17) Assoc. Prop. Add

19) Comm. Prop. Mult.

21) Comm Prop. Add

22) Assoc. Prop. Add

24) Comm. Prop. Mult.

2.9 cont.

Dec. 01, 2006

Zero vs. One

For any a

Name	Property
Additive Identity Prop.	$a+0=a$
Mult. Prop. of Zero	$a \cdot 0 = 0$
Mult. Ide. Prop.	$a \cdot 1 = a$

ex 5)

$6 + 0 = 6$ → Add Id. Prop
AIP

$7 \cdot 0 = 0$ → Mult. Prop. of Zero
MPZ

$14 \cdot 1 = 14$ → Mult Id. Prop.
MIP

additive inverse:

$$4 + (-4) = 0$$

Def$^{\Delta}$: The number opposite of the original #.

The #'s Add to equal Zero

---

what is the Add. Inv.?.

$8 \rightarrow -8$

$-7 \rightarrow +7$: Yes

$-1.5 \rightarrow 1.5$

Multiplicative Inverse:

$$7 \cdot \frac{1}{7} = 1$$

Defn: The **Reciprocal** of the original #.

$$\frac{3}{4} \rightarrow \frac{4}{3}$$

$$\frac{3}{4} \cdot \frac{4}{3} = \frac{1}{1} = 1$$

ex1 $\frac{3}{4} \div \frac{9}{2}$ Not M.I

$\frac{1}{\cancel{3}_{\cancel{4}_2}} \cdot \frac{\cancel{2}^{1}}{\cancel{9}_{3}} = \frac{1}{6}$

ex2 $\frac{4}{5} \div \frac{3}{40}$ Not M.I

$\frac{4}{\cancel{5}_{1}} \cdot \frac{\cancel{40}^{8}}{3} = \frac{32}{3}$

O.T.L.

Pg. 63: Exp. 1-15 all

Due Monday