

P3 63: Exp. 11-15, 16, 17,
19, 21, 22, 24

11

12

13

14

15

16

19
21
22
24

Comm. Prop. Add

17

19

21

22

24

Assoc. Prop. Add

Comm. Prop. Mult.

Comm Prop. Add

Assoc. Prop. Add

Comm. Prop. Mult.

2.9 cont.

Dec. 01, 2006

Zero vs. One

For any \mathbb{Q} a

Name

Property

Additive Identity
Prop.

$$\underline{\underline{a + 0 = a}}$$

Mult. Prop. of zero

$$\underline{\underline{a \cdot 0 = 0}}$$

Mult. Ide. Prop.

$$\underline{\underline{a \cdot 1 = a}}$$

ex 5)

$$6 + 0 = 6$$



Add Id. Prop
AIP

$$7 \cdot 0 = 0$$



Mult. Prop. of Zero
MPZ

$$14 \cdot \underline{1} = 14$$



Mult. Id. Prop.
MIP



additive inverse:

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

Def Δ : The number opposite of the original #.

The #s Add to equal zero

what is the Add. Inv.?

$$-7 \rightarrow +7 : \text{Yes}$$

$$8 \rightarrow -8$$

$$-1.5 \rightarrow 1.5$$

Multiplicative Inverse:

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

Defⁿ: The Reciprocal of the original #.

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

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

Review
ex

$$\frac{3}{4} \div \frac{9}{2}$$

$$\frac{\cancel{3}}{4 \times 2} \cdot \frac{\cancel{2}}{\cancel{9}} = \frac{1}{6}$$

ex2

$$\frac{4}{5} \div \frac{3}{40}$$

$$\frac{4}{\cancel{5}} \cdot \frac{\cancel{40}}{3} = \frac{32}{3}$$

O.T.L.

Pg. 63: Exp. 1-15 all

Due Monday