

I. Course Intro: see handout/checklist

II. Terminology (p.2): product, quotient, ratio

III. Exponents (p.4):

$$b^n = b \times b \times b \times \dots \times b \times b$$

(“n” *factors* of “b”)

$$\begin{aligned} \text{e.g., } 5^4 &= \underline{\hspace{10em}} \\ &= \underline{\hspace{5em}} \end{aligned}$$

IV. Real Numbers (pp.6-8):

$$\text{Natural Numbers} = \{1, 2, 3, \dots\}$$

$$\text{Whole Numbers} = \{0, 1, 2, 3, \dots\}$$

$$\text{Integers} = \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$$

## V. Absolute Value (p.15):

$|x|$  = distance from zero (on real # line)

## VI. Arithmetic Properties (pp.18-23):

$$a - b = a + (-b)$$

$$-(-x) = \underline{\hspace{2cm}}$$

$$a - (-b) = a + b$$

$$a(b \pm c) = ab \pm ac \quad \text{☞ distributive property}$$

## VII. Order of Operations (p.21): P E M D A S

## VIII. Examples (pp.27-28):

Exercises #96,100;22,34

Exercises #112,114,118,122

HW: intro checklist (website), text & calculator