CHAPTER 1 Notes Sheet

Lesson 1.01 Rounding, Estimating, & Range

A. Place Values



MathATube.com to gether we-ll learn

B. Rounding



Lesson 1.02 Number Operations

- A. Order of operations
 - 1. Operations in Parenthesis
 - 2. Exponents
 - 3. Multiplication/ Division from left to right
 - 4. Addition/ Subtraction from left to right
- B. Different Forms
 - a. Exponential Form 7²
 - b. Expanded Form 7x7
 - c. Standard Form 4,956
 - d. Expanded Form 4(1000) + 9(100) + 5(10)+6(1)

Lesson 1.03 Number Sense: Square and Square Roots

A. Squares

19² = 361

liew	Edit H	lelp							
									19
🖲 Degrees 🔘 Radians 🛛 Grads					MC	MR	MS	M+	M-
	Inv	In	()	-	CE	С	±	√
Int	sinh	sin	<i>x</i> ²	n!	7	8	9	/	%
dms	cosh	cos	xy	∛x	4	5	6	*	1/x
π	tanh	t	x ³	x	1	2	3	-	
F-E	Exp	Mod	log	10 ^x	0		•	+	_

B. Square Roots

√484 = 22

							4	184
O De	egrees 🔘 R	MC	MR	MS	M+	M-		
	Inv	n (-	CE	С	±	_√
Int	sinh	in x^2	n!	7	8	9	/	
dms	cosh	os x^{y}	∛x	4	5	6	*	1/x
π	tanh	an x^3	∛ <i>x</i>	1	2	3	-	
F-E	Exp M	od log	10*	0		· ·	+	

Lesson 1.04 & 1.05 Word Problems

A. 5 Step - Plan

- a. Understand the problem
- b. Analyze the problem
- c. Plan how to solve the problem
- d. Solve the problem
- e. Check the answer

B. Using Data in Word Problems



Lesson 1.06 - Multiplication Properties

- A. Distributive Property
 - a. 2 x (20 + 5) = (2x 20) + (2x 5)
- B. Commutative Property

a. 7 x 2 = 2 x 7

C. Associative Property

a.
$$2 \times (4 \times 3) = (2 \times 4) \times 3$$

- D. Property of One
 - a. 9 x 1 = 9
- E. Zero Property
 - a. 25 x 0 = 0

Lesson 1.07 - Multiplication: Decimals



Lesson 1.08 Division Decimals



Lesson 1.09 Number Sense: Factors

- A. Rules of Divisibility
 - a. All even numbers are divisible by 2
 - b. If the sum of the digits is a multiple of 3, the number is divisible by 3
 - c. If the last two digits are divisible by 4, the whole number is divisible by 4
 - d. If there is a 0 or 5 in the ones place of any number, the number is divisible by 5
 - e. If there is a 0 or 5 in the ones place of any number, the number is divisible by 5
 - f. If the sum of the digits of a number is 9, the number is divisible by 9
- B. Prime Numbers
 - a. If a number has only two factors, 1 and itself, it is called prime

Lesson 10 - Equivalent Fractions

A. Changing a fraction to a decimal



B. Comparing Fractions



C. Reciprocal Fractions



Lesson 1.11 Estimating with Fractions

A. Rounding fractions



Therefore 5/6 will round to 1.

B. Adding fractions

$$\frac{3}{4} + \frac{1}{3} = \frac{3 \times 3}{4 \times 3} + \frac{1 \times 4}{3 \times 4}$$
$$= \frac{9}{12} + \frac{4}{12}$$
$$= \frac{13}{12} = 1\frac{1}{12}$$

C. Subtracting fractions

$$\frac{5}{6} - \frac{2}{15} = \frac{5 \times 5}{6 \times 5} - \frac{2 \times 2}{15 \times 2}$$
$$= \frac{25}{30} - \frac{4}{30}$$
$$= \frac{21}{30}$$
$$= \frac{7}{10}$$

Lesson 1.12 Multiplying and Dividing Fractions

A. Multiplying Fractions



B. Dividing Fractions

