	Math 10 – Measurement									t	Name: Date:									
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round to the .. Example 2: Complete the following table: Round to the Ten Tenth Hundred Nearest.. 53<mark>8</mark>.5968 538.<mark>5</mark>968 538.5968 50 O 10960 11000 10964.9 10 964.893 Standard Notation vs. Scientific Notation Standard Scientific Notation Notation 150 000 000 At least one but power of 10 less then ten In other words,  $M \times 10^n$  is the proper form of numbers that are expressed in scientific notation, where  $1 \le M < 10$  and n is an integer {...-3,-2,-1,0,1,2,3...} For Example: **Conversion Steps:** 1. *Find M*. Place a decimal such that  $1 \le M < 10$ . 2. Find n. Count the # of places you moved the decimal. If the number you are converting is less than 1, then n is (-). If it is greater than 1, n is (+). Example 3: Express each number in scientific notation to the nearest tenth. (2 dec. places) a) 75 300 000 b) 0.000 038 92 5 places .. n = 5 start with small # (decimal) 2

\* use, brackets on calc \* lex

Example #4: In each case, perform the calculation and give the answer in scientific notation to one decimal place.

(4.35 E 2) (5.13 E - 1

a) 
$$(4.35 \times 10^2)(5.13 \times 10^{-6})$$

$$= 2.7 \times 10^3$$

Practice Work: Skills Review Worksheet #1-7

Thursday HW:

## Substitution in Algebraic Expressions

When substituting values, ALWAYS USE BRACKETS
WHY? | Ceep track of + /- Signs Exponents

Brackets

Divide

**Example 5:** Find the value of each of the following if x = 2 and y = -3.

a)  $y^2 - 7x - 3$ 

$$(-3)^2 - 7(2) - 3$$
  
9 - 14 - 3

9(2) 
$$3x^2 - y + y^3$$
  
9(2)  $3 - (-3) + (-3)$ 

5: Find the value of each of the following if 
$$x = 2$$
 and  $y = -3$ .

b)  $9x^2 - y + y^3$ 

$$9(2)^3 - (-3) + (-3)^3 + (-3)$$

## **Substitution into Formulae**

\_ isolate r

## Example 6:

- i) solve for the variable indicated, then
- ii) substitute the given value and answer to the nearest tenth where necessary.
- a) If  $S = \frac{\pi r}{4}$ , solve for r and calculate the value of r when S = 75.

S=17r xx -> 4.5=17.c ro 4.(75)=r = 45=r :.r=955

**b**) If  $A = \pi r^2$ , solve for r and calculate the value of r when A = 72.

 $\frac{A-1}{11} \xrightarrow{A} = \int_{A}^{A}$   $\therefore r = \int_{A}^{A}$ 

r= \(\frac{(72)}{17} = 4.78...\)

Practice Work: Skills Review Worksheet #8-11

4

<u>Math Tips</u> Multiplying "undoes"

dividing

Dividing "undoes"
multiplying

Avoid creating
"complex fractions"
(fractions inside
fractions)

Use  $\pi$  button on calculator, not 3.14