tues ch 1+2
Wed ch 3+4
thrs ch 5+6
Fri Review + test 1-6

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1-1 order of operations

expression
bunch of operations to do

4+7 (expression)
11 (value)

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4+7*6
4+42
46

mult
+
div
are first

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4+7*6÷2
4+42÷2
4+21
25

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8+3(2-1)
8+3(1)
8+3
11

implied multiplication

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#36) pg 3
7·5-(18÷6)4+2(7-4)÷2
35-(3)4+2(3)÷2
35-12+6÷2
* 35-12+3
23+3
26

left to right!!

35+(-12)+3

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order of operations for evaluating expressions

1- parentheses
2- mult + div (left to right)
3- add + sub (left to right)

"pemdas"

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1-2 expressions with variables

expression ✓
variable: symbol that represents some value

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$6+3x$

value of expression ?

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$6+3x$

value of expression ?

let $x=4$

$6+3x$
$6+3(4)$
$6+12$
18

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pg 6 #41) $x=4$ $y=6$ $z=5$

$$\frac{2xy+5z-1}{x+y-z}$$

$$\frac{2(4)(6)+5(5)-1}{4+6-5}$$

$$\frac{48+25-1}{5}$$

$\frac{72}{5}$

~~$\frac{70}{5}$~~

14.4

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1.3 - commutative and associative properties

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commutative property of addition:

$a+b=b+a$

$7+3=10$
$3+7=10$

$6-2=4$
$6+(-2)$
$-2+6=4$

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commutative property of multiplication

$a*b=b*a$

$6*2=12$
$2*6=12$
$6*(-2)=-12$
$(-2)*6=-12$

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associative property of addition

$(a+b)+c=a+(b+c)$

$(7+6)+3$	$7+(6+3)$
$13+3$	$7+9$
16	16

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associative property of multiplication

$(a\cdot b)\cdot c=a\cdot(b\cdot c)$

$(7\cdot 6)\cdot 2$	$7\cdot(6\cdot 2)$
$42\cdot 2$	$7\cdot 12$
84	84

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1.4 distributive property

(of multiplication over addition)

$a(b+c)=ab+ac$

$7(3+2)$	$7(3)+7(2)$
$7(5)$	$21+14$
35	35

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$7(x+3)$

simplify using the distributive property:

$7x+7(3)$

$7x+21$

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p812 #25)

$3(3a+4)$

$9a+12$

#27) $(14g+7)\frac{1}{7}$

$14g \cdot \frac{1}{7} + 7 \cdot \frac{1}{7}$

$\frac{14g}{7} + \frac{7}{7}$

$2g+1$

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1-5 combining like terms

like terms: same variables with same exponents

$3x + 2x$

simplify the expression.

$5x$

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$3x+2y$

$3x+3x^2$

$3(6)+3(6^2)$

$3(6)+3(6 \cdot 6)$

$18+108$

126

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When simplifying expressions

You – combine like terms

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1-6 factors and exponents

$3^2 = 3 \cdot 3 = 9$

$3^5 = 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 = 243$

$7^2 = 7 \cdot 7 = 49$ (not $7 \cdot 2 = 14$!!)

$3^2 \cdot 2 + 6$

$9 \cdot 2 + 6$

$18 + 6$

24

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factors + terms

terms: $3x+6$ (added) 2 terms: $3x$, 6

factors: $3x$ (multiplied) 2 factors: 3, x

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$12x^3$

$3 \cdot 4 \cdot x \cdot x \cdot x$

$3 \cdot 2 \cdot 2 \cdot x \cdot x \cdot x$ factors

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1-8 – solutions to open sentences

open sentence ⇒ equation

$7x+4=25$

"hate"

solution: value of x that gives a true statement.

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$7x+4=25$

$x=3$

$7(3)+4=25$

$21+4=25$

$25=25$ ✓

$x=5$

$7(5)+4 \neq 25$

$35+4 \neq 25$

$39 \neq 25$

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ch 1: p 24:
3,9,11,13,21,25,33,35,37

Ch 2: p 60:
7,9,11,15,17,21,23,27,29,33,35,37,
39,43,45

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