TH-PA Pre-Algebra Week 4

Review

$|6| = 6$ $|-9| = 9$ $|-15| = 15$

Absolute value – is a magnitude – distance from the number to zero on the number line.

$-|-5| = -(5) = -5$

$-|-7| - |4| =$

$-7 - 4 = -7 + (-4) = -11$

same signs → sum

$7 + 4 = 11$

$-7, -11, -3, 8$ Least ⟶ Greatest

$\frac{-11}{}, \frac{-7}{}, \frac{-3}{}, \frac{8}{}$

$8 + (-4) = 4$ Think $8 - 4 = 4$ different signs, take the difference

$-8 + 4 = -4$

$-8 + (-4) = -12$ same signs → sum.

$-6 + (-8) + 4 + (-2)$ $\quad 14-4=10$

$-14 + 4 + (-2)$

$-10 + (-2) = -12$

$x + a$ $\quad x = -3$ $\quad a = -8$

$-3 + (-8) = -11$

$-8 - 7 = -15$ $\quad -8-7 = -8+(-7) = -15$

$8 - (-7) = 8 + 7 = 15$

$-8 - (-7) = -8 + 7 = -1$

$8 - 7 = 1$

1-8 Look for a Pattern

Nate's Summer

(Double Day # + 4) * Day #

Day	1	2	3	4	5	6	7	((7*2)+4) 18(7)
Donuts	6	10	14	18	22	26	30	
Total	6	16	30	48	70	96	126	

(*6, *8, *10, *12, *14, *16, *18; +4)

16,560 donuts

90 days Nate eat this summer!

How many donuts did

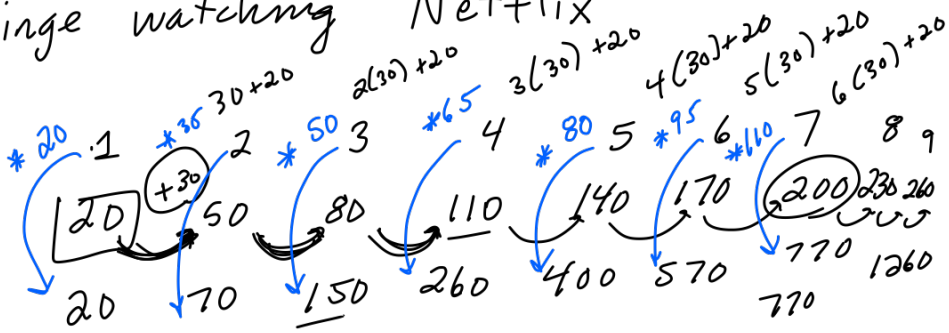
16,560 donuts

$(2n+4)n$

$(90(2)+4)\,90$

$= (184)90$

Emma was binge watching Netflix



How many hours of Netflix will Emma watch on day 10? $20+(30)(n-1)$ $20+(30)(10-1)=290$

How many total hours of Netflix will she watch by day 9? 1260

1-9 Multiplying and Dividing Integer

(+) * (+) = (+)

(+) * (−) = (−)

(−) * (+) = (−)

(−) * (−) = (+)

$\downarrow \frac{8}{2} * 5$

40 26 x 5 130

Public High School

You	Everyone Else	
Happy	Happy	Good
Happy	Sad	Bad
Sad	Happy	Bad
Sad	Sad	Good

CONFORMITY

$-5 * 12 = -60$

neg * pos = negative

same → ⊕

different → ⊖

1.) $-91 \div (-13) = 8$

$\ominus \div \ominus = \oplus$ positive

3.) $72 \div (-9) = -8$

$\oplus \div \ominus = \ominus$

5.) $-18 \div 2 = -9$

$\ominus \div \oplus = \ominus$

7.) $52 \div 4 = 13$

$\oplus \div \oplus = \oplus$

11.) $-6(-3) \cdot 2 = 18 \cdot 2 = 36$

(-3) → *

even number of negatives we get a positive

$(-8)(3)(-6)(2)(-9)(-10) = +$

1 2 3 4

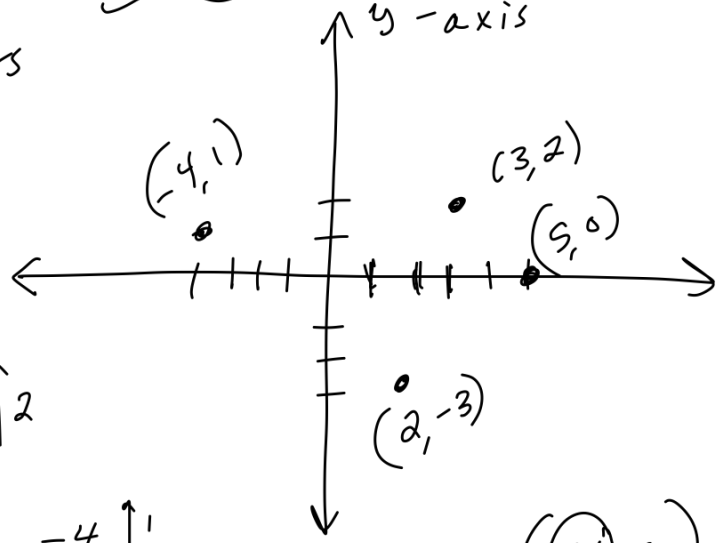
1-10 The Coordinate Plane

Next time → 5

ordered pairs

(x, y)

(3, 2)



(5, 0)

x-axis

(2, -3)

3 → 2 ↑

(-4, 1)

-4 ← 1 ↑

2 → -3 ↓

((x) y)

+ ↕ −

− ↔ +

tonight
Quiz 2

Quiz 3
Sept 24th

HW
1-8 evens
1-9 evens
Online HW 4 (sat)

Quiz 4 due Oct 1st