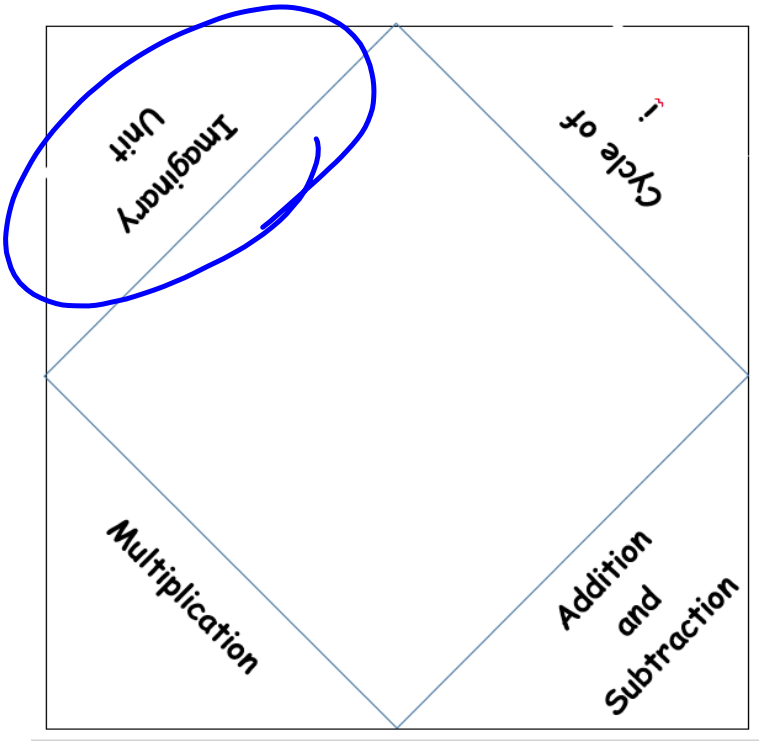
Wednesday: Math Skill

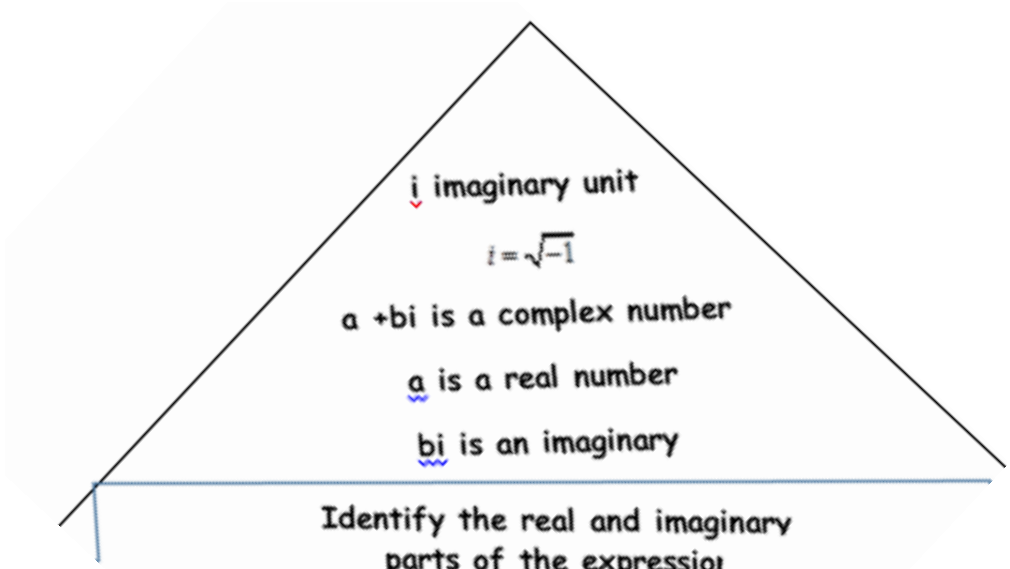
If Hannah worked these hours each week, how much would she make in 1 wee

Time Card

Employee: Hannah

Day	In	Out	In	Out	Total Hours
Monday	6:00 AM	9:00 AM	11:00 AM	1:00 PM	5
Tuesday	7:00 AM	10:00 AM	11:00 AM	4:00 PM	8
Wednesday	6:00 AM	10:00 AM	12:00 PM	3:00 PM	7
Thursday	9:00 AM	12:00 PM	3:00 PM	7:00 PM	7
Friday	10:00 AM	3:00 PM	5:00 PM	9:00 PM	9
Saturday	OFF	OFF	OFF	OFF	0
Sunday	6:00 AM	1:00 PM	4:00 PM	6:00 PM	9
		HOURS	SALARY PER HOUR	TOTAL SALARY	45
Regular Hours		40	$15.00	600	
Overtime		5	$22.50	112.50	
TOTAL				712.50	


Imaginary Unit
Cycle of i
Multiplication
Addition and Subtraction



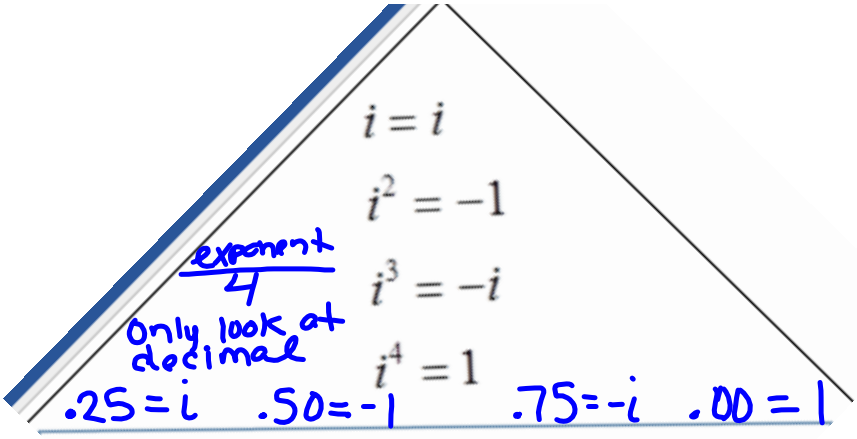
Identify the real and imaginary parts of the expressio

1. 3+4i
real 3
imag. 4i

2. 6i
real 0
imag 6i

2b. $\sqrt{-27}$
$i\sqrt{27}$
$i3\sqrt{3}$
$3i\sqrt{3}$

$\sqrt{27}$
3 9
3 3



Simplify the value of i

4. i^{10} 5. i^{75} 6. i^{254}

-1 -i -1

$\frac{10}{4} = 2.5$ $2\frac{2}{4}$

$\frac{75}{4} = 18.75$

$\frac{254}{4} = 63.5$

Add/Subtract the real numbers.

Add/Subtract the imaginary numbers

(like terms)

Simplify the following

7. $(2 - 5i) + (6 + 3i)$

$8 - 2i$

8. $2i - (3 - 4i) + (-8 + 15i)$

$-11 + 21i$

$2i - -4i + 15i$

$2i + 4i + 15i$

Distribute the terms and
treat i like an x.
Simplify the expression

Simplify the following

9. $(2 - 5i)(6 + 3i)$

$12+6i-30i-15i^2$

$12-24i-15(-1)$

$12-24i+15$

$27-24i$

8. $(3 - 4i)(-2 - 7i)$

$-6-21i+8i+28i^2$

$-6-13i+28(-1)$

$-6-13i-28$

$-34-13i$