Created by Stephon Price

Warmup 8/(76 - 76 + 15 - 0)

- Label a new page "Week 2 Warmups". Remember, it will be easy to find if it's on the last page of your binder. Label today's warmup with the date or "Monday".
- 2. What are the three main expectations in this class? (Try to do this without asking other people?)

Warmup reminders

- Try to put all of the warmups for the week on the same piece of paper.
- You will gain or lose points on LiveSchool depending on if you turn in warmups or if you are missing a few days
- If you are ever absent, just say "Thursday absent" or something so I know not to count off
- ORGANIZATION IS KEY!!! If you struggle with it, try to come up with a "system" that works for you

Ist Period

- Handbook Page
- Student Council

5th Period

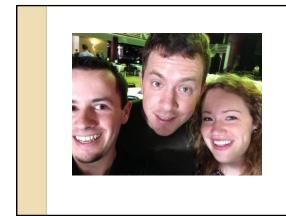
- If your LiveSchool codes didn't work, it could be because you already used that same code last year.
- Try using your login information from last year. If that doesn't work (or you don't remember), please see me, and I can help you get set up.

Project Grades

- This is your first grade that "counts"
- What is an easy way to figure out your percentage?

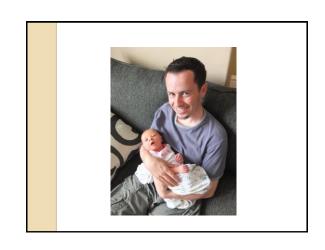
Lischwe Age Problem, Part 2

- Nate's age + Anne's age = 61
- 23 years ago, Nate was twice as old as Anne.

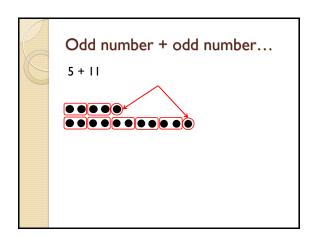


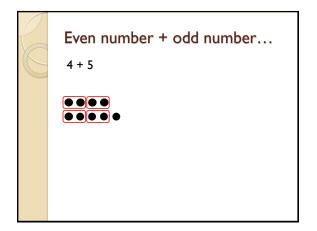


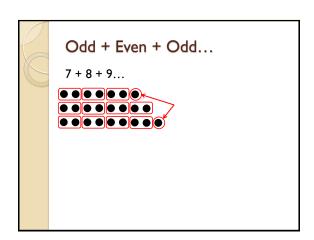


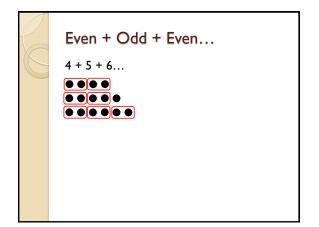


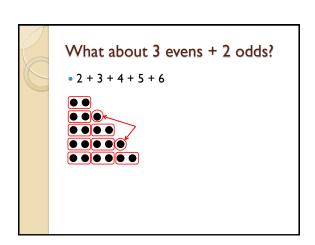
Some more consecutive sums patterns...











```
Pattern for adding 2 numbers, 3
 numbers, 4 numbers...
            1 + 2 + 3 = 6
1 + 2 = 3
                           1 + 2 + 3 + 4 = 10
2 + 3 = 5
                          3 + 4 + 5 + 6 = 18
            3 + 4 + 5 = 12
3 + 4 = 7
4 + 5 = 9
            4 + 5 + 6 = 15
                           4 + 5 + 6 + 7 = 22
           5 + 6 + 7 = 18
5 + 6 = 11
                          5 + 6 + 7 + 8 = 26
6+7=13 6+7+8=21
                          6 + 7 + 8 + 9 = 30
```

A **SHORTCUT** for adding 3 consecutive numbers...

Just take the middle number times 3!

A **SHORTCUT** for adding 5 consecutive numbers...

$$1 + 2 + 3 + 4 + 5$$

Just take the middle number times 5!

Would it work for 6 numbers?

Last pattern: impossible numbers

=ase paccerin in	ipossione mannoene
I: Impossible	21: 10 + 11, 6 + 7 + 8, 1 + 2 + 3 + 4 + 5 + 6
2: Impossible	22: 4 + 5 + 6 + 7
3: 1 + 2	23: 11 + 12
4: Impossible	24: 7 + 8 + 9
5: 2 + 3	25: 12 + 13, 3 + 4 + 5 + 6 + 7
6: 1 + 2 + 3	26: 5 + 6 + 7 + 8
7:3 + 4	27: 13 + 14, 8 + 9 + 10, 2 + 3 + 4 + 5 + 6 + 7
8: Impossible	28: 1 + 2 + 3 + 4 + 5 + 6 + 7
9:4+5,2+3+4	29: 14 + 15
10: 1 + 2 + 3 + 4	30:9+10+11,6+7+8+9,4+5+6+7+8
11:5 + 6	31: 15 + 16
12: 3 + 4 + 5	32: Impossible
13:6+7	33: 16 + 17, 10 + 11 + 12, 3+4+5+6+7+8
14:2 + 3 + 4 + 5	34: 7 + 8 + 9 + 10
15: 7 + 8, 4 + 5 + 6, 1 + 2 + 3 + 4 + 5	35: 17 + 18 ,5 + 6 + 7 + 8 + 9,2 + 3 + 4 + 5 + 6 + 7 + 8
16: Impossible	36: 11 + 12 + 13, 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8
17:8 + 9	37: 18 + 19
18:5+6+7,3+4+5+6	38:8+9+10+11
19: 9 + 10	39: 19 + 20, 12 + 13 + 14.4+5+6+7+8+9
20.2 + 3 + 4 + 5 + 6	40.6 + 7 + 8 + 9 + 10

Impossible numbers

- The ONLY numbers that are impossible to get from consecutive sums are:
- 1, 2, 4, 8, 16, 32, 64, 128, 256, ...
- Crazy, right?

COMPETITION

- There are FIVE ways to get 45.The first pair to find them all without a calculator wins!!!
- DO NOT SAY ANY OUT LOUD! You will give them away!!! Also, please do not look at other papers – that will disqualify you!

5 ways to get 45

- 1. 22 + 23
- 2. 14 + 15 + 16
- 3. 7 + 8 + 9 + 10 + 11
- 4.5+6+7+8+9+10
- 5. I + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9

Whiteboards!!!

- The fastest class picking up and the fastest class putting away will each get a point.
- I will stop the timer when each person has a whiteboard, marker, and eraser and is sitting in their desk again.
- Use the markers from the cabinet, not the ones from the board.

Today's Objectives

- Refresh our memory on:
 - Long division
 - Multiplication
 - Multiplying & dividing decimals

Long Division

$$4)143$$

$$35\frac{3}{4} \text{ or } 35.75$$

$$35\frac{3}{4}$$
 or 35.75

ON YOUR WHITEBOARD:

· Must do the challenge problem if you get to it.

1. 6)81

13.5

2. 8)3

0.375

3. 3)757

 $252.\overline{3}$

4. 11)24

 $2.\overline{18}$

5. (Challenge) $7\overline{)16}$

 $2.\overline{285714}$

ON YOUR WHITEBOARD:

· Must do the challenge problem if you get to it.

I. 48·7

336

2. 97 · 97

9409

3. (Challenge) 792 · 380

300,960

With decimals...

$$5)1.28$$
 2.3 · **1.4**

0.256

3.22

ON YOUR WHITEBOARD:

Must do the challenge problems if you get to them.

I. 5.6·12	67.2
2. 3)14.9	4.96
3. 9.4 · 9.4	88.36
4. (Challenge) 0.8)1.37	1.712

5. (Challenge) 124.6 · 0.78 97.188

HOMEWORK

• Multiplication & Division WS