

Created by Mr. Lischwe

Warmup 10/((170 ÷ (80 ÷ 8))

Turn in your unused restroom passes. (Right now, into the tray!) Each unused pass will be worth points on LiveSchool. If they are ALL unused, you will get a piece of candy.

1. Create a NEW goal for this 9 weeks, and write it on your slip of paper. Then copy your goal onto your warmup page. Your goal does not have to be about your overall grade. It can be about homework, study skills, in-class habits, quizzes, etc. You can write more than one goal on your slip of paper if you want. A good goal is SPECIFIC ("Do good" is not specific (or grammatically correct)) It should also be the right mix between REALISTIC and AMBITIOUS (don't say you want to get 100% on every test, but also if you got an A last 9 weeks you should not be putting "to pass"). You do not have to put your name on it, but you may want to put your name on the back if you feel like you won't remember which goal is yours at the end of the 9 weeks.
2. Write down something you will need to do, or a habit you will need to have, or a mindset you will need to have, etc. in order to reach your goal.

New RR Passes

- You MAY NOT transfer these to other people. Write your name on them RIGHT NOW!!!
- Some of you complained when you ran our last 9 weeks and I wouldn't let you go. You need to plan this out better!

REWARDS: Perfect Effort for 1st 9 weeks

- ALL HW on time, ALL ALEKS on time, All warmups turned in!

2 nd	4 th	5 th	6 th
Saniya A	Ben B	Matthew C	Adam C
Luke C	Olivia L	Lily C	
Lucia H	Sanaa W	Natalie G	
Alex S		Annie H	
Kousei T		Julie M	

ALEKS

- If you did not do any ALEKS over the last week of the 1st 9 weeks OR during Fall Break, you can do 60 minutes instead of 30 minutes for next week and I will give you full credit for both weeks.
- NOTE: If you did a bunch of minutes during that last week but you had a lot of missing minutes for your weekly grades, I filled in the minutes for those grades, and you will have to do 30 more. Ask me if you're not sure if this is you.

Today's Problems

- "Find a pattern"

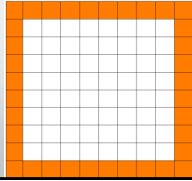
Number sums problem

- What is the sum of the numbers:
 $1 + 2 + 3 + 4 + \dots + 399 + 400?$

The "Border" problem

Here is a 10 by 10 square. WITHOUT TALKING TO YOUR GROUP YET, figure out how many shaded squares there are (without counting them one by one)

- Now, talk to your group and share the different ways you counted them.



- With your group, determine how many shaded border squares there would be in a 30 by 30 square.

- IF TIME: If "n" is the number of squares on each side, write a formula that gives the number of border squares.

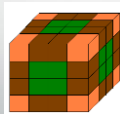
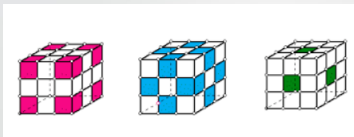
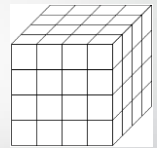
Painted Cube Problem

- A 3 by 3 by 3 wooden cube is painted red on all sides.
- How many of the cubes have red paint on **zero** sides?
 - How many of the cubes have red paint on **one** side?
 - How many of the cubes have red paint on **two** sides?
 - How many of the cubes have red paint on **three** sides?
 - How many of the cubes have red paint on **four or more** sides?



Painted Cube Problem

- A 4 by 4 by 4 wooden cube is painted red on all sides.
- How many of the cubes have red paint on **zero** sides?
 - How many of the cubes have red paint on **one** side?
 - How many of the cubes have red paint on **two** sides?
 - How many of the cubes have red paint on **three** sides?
 - How many of the cubes have red paint on **four or more** sides?



Painted Cube Problem

- What if it were a 10 by 10 by 10 cube?

- How many of the cubes have red paint on **zero** sides?
- How many of the cubes have red paint on **one** side?
- How many of the cubes have red paint on **two** sides?
- How many of the cubes have red paint on **three** sides?
- How many of the cubes have red paint on **four or more** sides?



Homework

- Same as yesterday – 1st 9 Weeks Review WS