Thursday 2/27/20

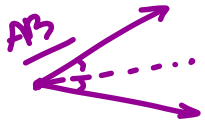
1. Find your name on a desk.
2. Put your phones/earbuds away.
3. Grab Notes,Calculator,Warm-Up
4. Do Warm-Up 

5. Uno & Algebraic Proof Notes

Jul 31-9:37 PM

Warm-Up

1. What's the difference between an angle bisector and a segment bisector?



2. Write the logical way of creating a peanut butter and jelly sandwich.

- Plate, Bread, PB, Jelly, knife
- open PB/Jelly
- Take out (non-butt) pieces.
- Toast Bread (optional)
- Knife → Jelly (enough cover bread)
- Spread Jelly on bre.
- Knife - PB., Spread ...

What does it mean to prove something?

To provide or demonstrate sufficient evidence that something is TRUE!

Basically, to win an argument!

Why do a proof in Geometry?

To show our understanding of Geometry topics and how they all connect!

3 RULES of Uno!

1. You can play a card of the same color.

2. You can play a card of the same number.

3. You can play a WILD card at any time in order to change the color.

The first card is the GIVEN card

How could we get to

Given

Prove

Use these cards

Given

Prove

Use these cards

Two-Column Proof

Statements	Reasons
Progression of our argument laid out STEP by STEP These statements are things that MUST be true!	**WHY** CAN WE SAY THE STATEMENTS? (These can be postulates, theorems, or explanations) Why are the statements TRUE?

Feb 12-7:51 AM

Flowchart for a Good Proof:

GIVEN

- Should always be one of your **GIVEN** statements
- Use your knowledge to build off of this

⇩

Statements/ Conclusions

- Continue using ***LOGICAL*** conclusions
- Look for OBVIOUS things (shared sides, linear pairs, vertical angles, etc.)

⇩

END

- Your "prove" should be your **LAST** statement!

Formal 2-Column Proof

Given: Blue 6  **Prove:** Yellow Reverse  .




Statements: (What Card to Play)	**Reasons:** (Why can we play this card?)
① Blue 6	① Given
② Blue Skip	② Same Color
③ Wild Card	③ Change Color
④ Yellow Reverse	④ Changed to Yellow

Formal 2-Column Proof

Given: Blue 5  **Prove:** Green 6 


Statements: (What Card to Play)	**Reasons:** (Why can we play this card?)
① Blue 5	① Given
② Blue 1	② Same Color
③ Green 1	③ Same #
④ Green 6	④ Same Color

What am I learning today?

Learning Objective 2B.1

How to use two-column proofs.

Jul 31-6:18 PM

What will I do to show that I have learned it?

I can...Use properties, theorems, and mathematical definitions to help complete "statements" and "reasons" in a proof

Jul 31-6:18 PM

Use SIMPLE PROPERTIES AND PROPERTIES OF EQUALITY!

Addition Property of Equality	Subtraction Property of Equality
Multiplication Property of Equality	Division Property of Equality

Symmetric Property	If a = b, then b = a

Given: 2x + 3 = 4x - 7

Prove: x = 5

Statements	Reasons
1. $2x+3=4x-7$ $-2x \quad -2x$	1. Given
2. $3=2x-7$ $+7 \quad +7$	2. Subt. Prop. of Equality.
3. $\frac{10}{2}=\frac{2x}{2}$	3. Add. Prop. of Equality.
4. $5=x$	4. Division Prop. of Equality.
5. $x=5$	5. Symmetric Prop.

Aug 23-8:01 AM

Algebraic Proof TaskCards

- With your elbow partner, work together to fill in each of the blank reasons that correspond to the step used to get to the next statement (like in the notes).

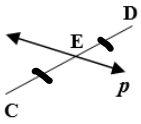
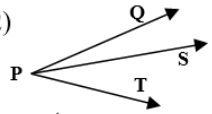
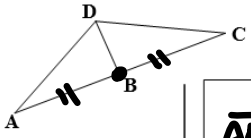
$2(a+1) = -6$ Given

$2a+2 = -6$ Distributive Prop.

Remainder of Class:
Work with your partner on the classwork on the drawing conclusions worksheet, in preparation for tomorrow's proofs.

HW: Drawing conclusions worksheet

Drawing Conclusions WS

1) p bisects $\overline{CD}$ at point E  $\overline{CE} \cong \overline{DE}$ Def. of Bisector	2) 	3) B is the midpoint of $\overline{AC}$  $\overline{AB} \cong \overline{CB}$ Def. of Midpoint