

TH - G

Geometry Week 7

hypothesis

WW

Logan

Keen.

Han.

Noah

Will

Chr

Claire

Chris

Billy

1.) If you have just eaten a turkey sandwich,
then you need to wait at least 45 min
before jumping in the pool.

conclusion

Converse: If you have waited 45 min to
jump in the pool, then you ate
a turkey sandwich. False

hyp

If you truly want a delicious donut, then
you want a Dunkin Donut.

conc.

Conv: If you want a DD, then you truly
want a delicious donut False

5.) If it is Nov 3rd, then it is Election Day this year.
hyp conc.

Converse:

If it is Election Day this year, then it is Nov 3rd.
True

It is Nov 3rd if, and only if, it is Election Day this year.

Law of Detachment

If you go to Coolcut, then you must get a milkshake.
hyp conc.

Hannah got a milkshake no conclusion

If you do not meet the height requirement, then you cannot ride the rollercoaster.

Charlie did not ride the rollercoaster.

no conclusion

3.) If you want to eat the world's most expensive cheeseburger, then you have to have \$500.

Noah wants that burger.

If you complain a lot, then no one will like you.

Will complain all the time

No, no one likes him.

Law of Syllogism

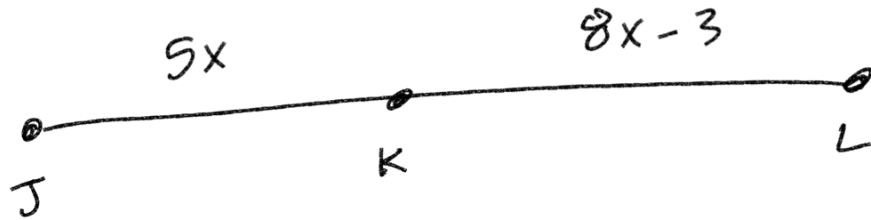
If you drop food on the floor, then you have 5 secs to recover and eat it.

If you only have five secs to recover and eat it, then you better pounce on it.

Billy dropped a chunk - Billy will pounce on it

$A \rightarrow B$ $B \rightarrow C$ $A \rightarrow C$

2-4 Reasoning in Algebra



$$\overline{JL} = 62$$

statements

$$\overline{JK} + \overline{KL} = \overline{JL}$$

$$5x + 8x - 3 = 62$$

reasons

{ Segment Addition Post. }
(SAP)
Substitution Property

$$5x + 8x - 3 = 62$$

$+3$ $+3$

$$5x + 8x = 65 \longrightarrow \text{Addition Property of Equality (APE)}$$

"combine like terms"
Simplify

$$\rightarrow \frac{13x}{13} = \frac{65}{13}$$

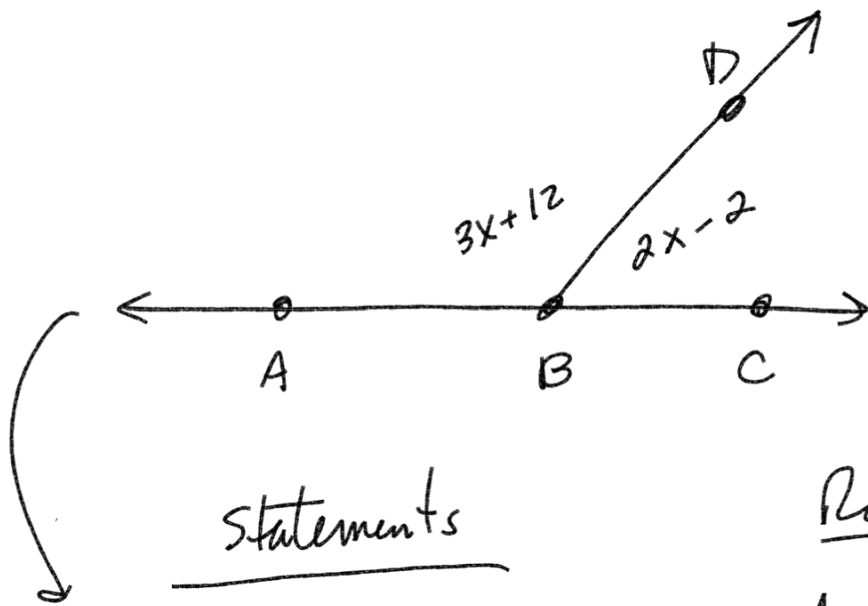
$$x = 5$$

Division Property of Equality

$$7x + 12 = 20$$

$$7x = 8$$

subtraction property of equality



Statements

$$\angle ABD + \angle DBC = \angle ABC$$

$$\angle ABC = 180^\circ$$

$$3x + 12 + 2x - 2 = 180$$

$$5x + 10 = 180$$

$$5x = 170$$

$$x = 34$$

Reasons

Angle Addition Postulate
(AAP)

Definition of a line

Substitution

Simplify

Subtract Prop of Eq

Div Prop of Eq

Quiz 5
due tonight

Quiz 6
due

Oct 15th

HW

2-4 all
supplemental on
worksheets

online HW

7 Proofs

(Sat)

Quiz 6 (2-1-2-3)
(Sat)

