Constructing Triangles

Part 1

Can any three side lengths form a triangle? Using the computer applet, make and study several test triangles using the steps below.

Determine if the triangle is possible, and write yes or no.

For this activity, consider the 3 sides that may/may not form a triangle.

Note: In this app, put the longest side along the bottom of the triangle.

To get to the app used on this WS

- Google search → (PBS Learning Media Triangles)
- Click on the first option > (Constructing Triangles)
- 3) Click on Launch to use the app

Put a star by the longest side length in the table

-If there are 2 or more that are the longest, just put a star by one of them.

Part 2

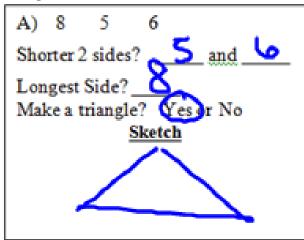
For the following problems,

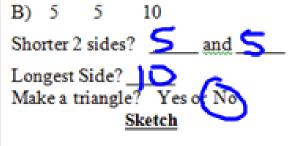
Side Length A	Side Length B	Side Length C	Triangle Possible?
*	4	4	Yes
44	3	2	yes
3	2	1	No
*	3	3	No
→ 10	6	6	yes
3	\$	3	No
6	5	₹ 9	res
4	·	5	294.
5	3	×	$\mathcal{X}_{\mathcal{F}}$
大	4	6	785

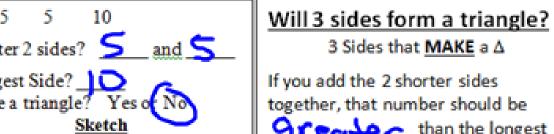
Part 2

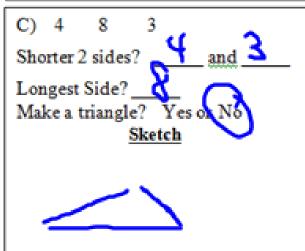
For the following problems,

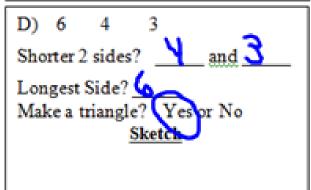
- 1) Identify the shorter sides and longest side of the triangle.
- 2) Do they make a triangle? (Circle yes/No)
- 3) Draw a sketch





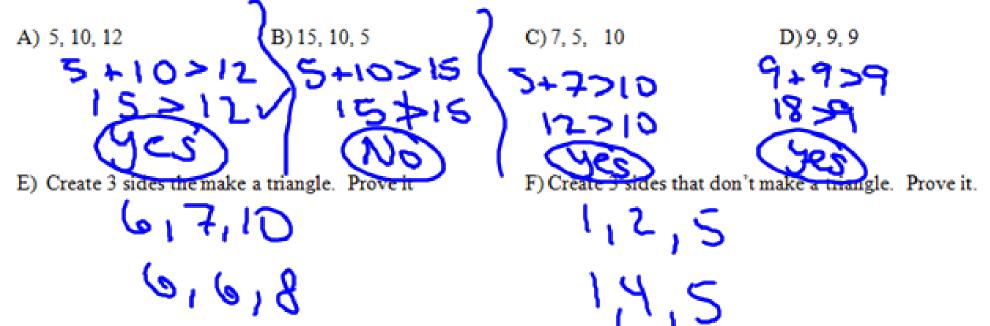






C than the longest one → DOES MAKE a Δ 3 Sides that **DON'T MAKE** a △ If I add the 2 shorter sides together and that number (9 wal 4) than the longest side → DOES NOT MAKE a ∆

Do the 3 sides below create a triangle? Use what you learned on the front side to say Yes or No. SHOW work to prove your answer.



Part 3

On this side, you will be drawing angles and deciding if the form a triangle or not.

- 1) Draw an angle with the given measure below.
- A) 55°

B) 100°