

11-18-19 2<sup>nd</sup> Geo

What would 3<sup>rd</sup> side of  $\Delta$  be

① 4, 6  $2 < m < 10$

② 8, 9  $1 < m < 17$

③ 3, 7  $4 < m < 10$

④ 10, 10  $0 < m < 20$

⑤ 11, 2  $9 < m < 13$

Could the following be triangles?

⑥ 4, 5, 18  $1 < 9$  NO

⑦ 3, 8, 10  $5 < m < 11$  Yes

⑧ 6, 6, 9  $0 < m < 12$  Yes

⑨ 2, 3, 10  $1 < 5$  NO

⑩ 7, 7, 7  $0 < 14$  Yes

⑪ 2, 5, 7  $3 < m < 7$  NO

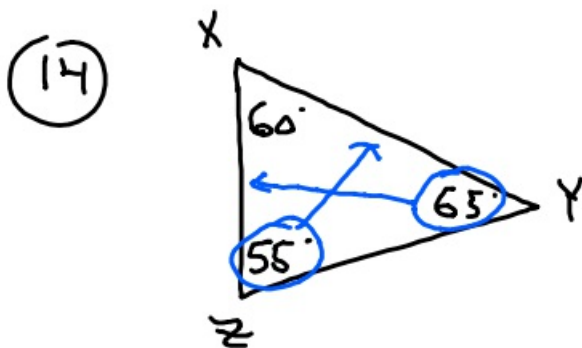
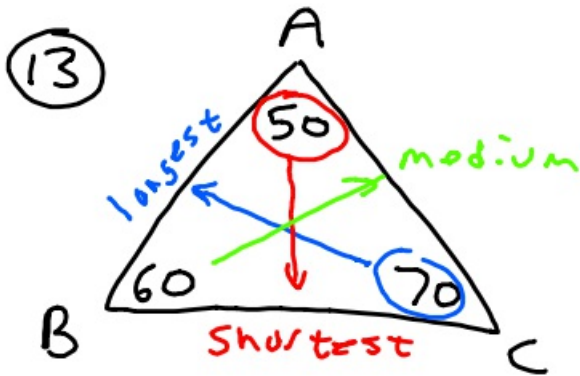
12) Which set could be a  $\Delta$ ?

a.) 2, 1, 3 1 3 NO

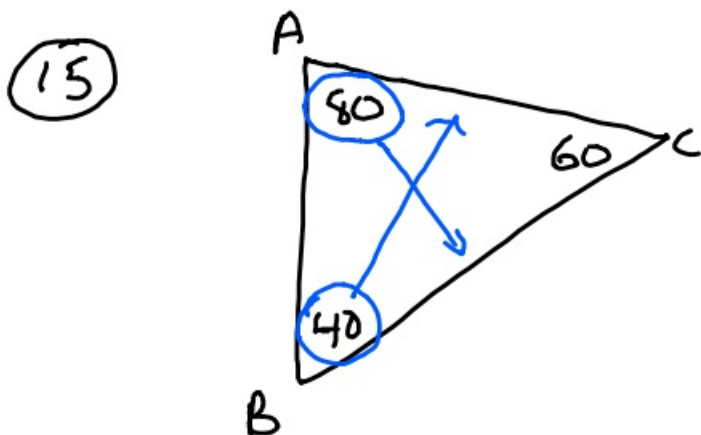
b.) 3, 10, 15 7 13 NO

✓ c.) 4, 6, 3 2 10 YES

d.) 3, 7, 3



Longest =  $\overline{XZ}$   
 Shortest =  $\overline{XY}$



Longest =  $\overline{BC}$   
 Shortest =  $\overline{AC}$