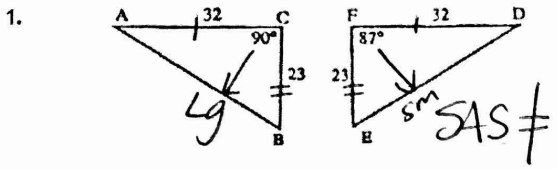


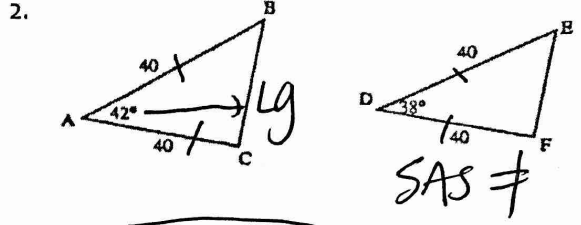
Day 07 HW: Skills Practice Worksheet
 Inequalities in Two Triangles Practice

Name: Master E
 Date: _____ Block: 9

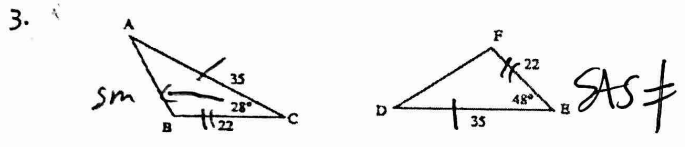
What can you conclude about the segment lengths in each pair of triangles (choose the best answer)?



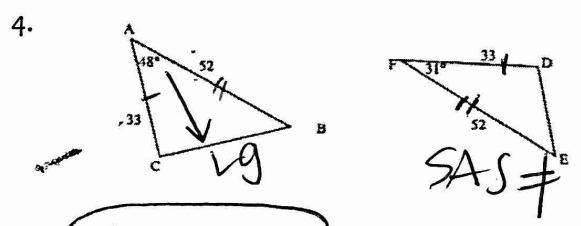
- A. AB > DE
- B. AB < DE
- C. AB = DE
- D. not enough info



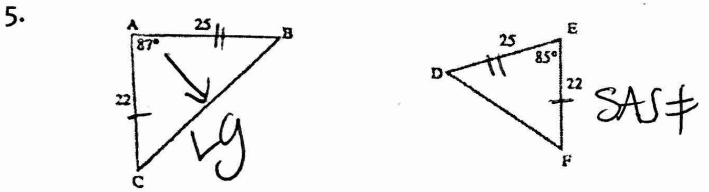
- A. BC > EF
- B. BC < EF
- C. BC = EF
- D. not enough info



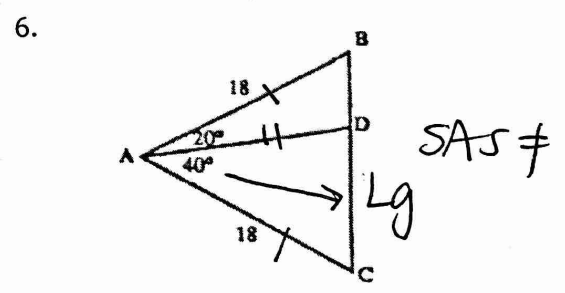
- A. AB > DF
- B. AB < DF
- C. AB = DF
- D. not enough info



- A. BC > ED
- B. BC < ED
- C. BC = ED
- D. not enough info

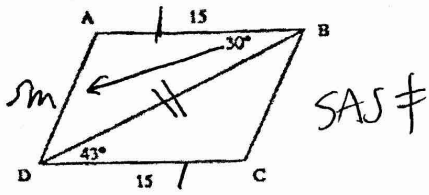


- A. CB > DF
- B. CB < DF
- C. CB = DF
- D. not enough info



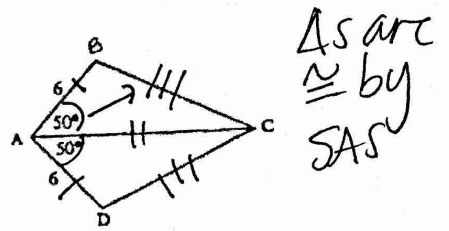
- A. BD > DC
- B. BD < DC
- C. BD = DC
- D. not enough info

7.



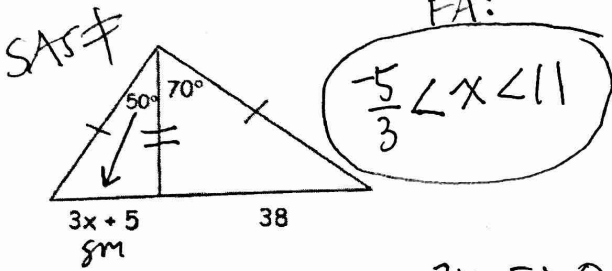
- A. $AD > BC$
- B. $AD < BC$
- C. $AD = BC$
- D. not enough info

8.



- A. $BC > DC$
- B. $BC < DC$
- C. $BC = DC$
- D. not enough info

9. Find the range of values for x.



$$3x+5 < 38$$

$$3x < 33$$

$$x < 11$$

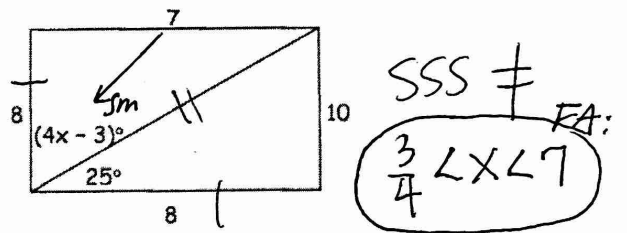
$$3x+5 > 0$$

$$3x > -5$$

$$x > -\frac{5}{3}$$

but you can't have a negative side length, so

10. Find the range of values for x.



$$4x-3 < 25$$

$$4x < 28$$

$$x < 7$$

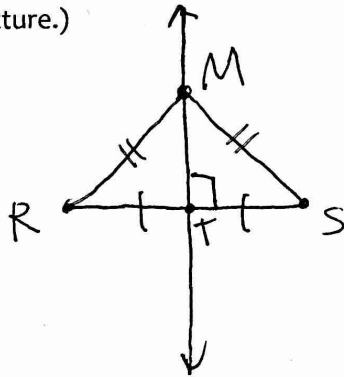
$$4x-3 > 0$$

$$4x > 3$$

$$x > \frac{3}{4}$$

but you can't have a negative x, so

11. If M is on the \perp bisector of \overline{RS} , then M is equidistant from R and S which would make $\overline{MT} \cong \overline{MS}$. (Hint: draw a picture.)



12. If T is on the \angle bisector of $\angle CAR$, the T is equidistant from AC and AR. (Hint: draw a picture.)

