2) No; the ratio of corresponding sides would be the same but they would not necessarily be congruent

3) ΔFED

4) EF, FD, DE

5) 15, y

6) 15, x

7) 20

8) 30

9) Similar; ΔFGH~ΔKLJ

10) Similar; ΔNYM~ΔZYX

11) Not similar

12) Similar; ΔCBD~ΔCAE

13) Similar; ΔYZX~ΔYWU

14) Similar; ΔNMP~ΔNLQ

15) The AA Similarity Postulate is for triangles not quadrilaterals

16) B (20)

17) The 5 should be a 9, \( \frac{4}{6} = \frac{9}{x} \)

18) Sketch of two triangles with different angle measures

19) Sketch a triangle where 2 sides are proportional but the 3rd side is not

20) A \( \left( \frac{35}{3} \right) \)

21) (10,0)

22) \( \left( \frac{28}{3}, 0 \right) \)

23) (24,0)

24) \( \left( \frac{9}{2}, 0 \right) \)

26) Yes, in ΔJKL, \( m\angle L = 57 \) making the triangles similar by AA Similarity

28) No, 87+94 = 181 is which is already greater than the possible total for all three angles

32) a. AA Similarity  

b. 78 m  
c. 130 m

41) C (5 in by 3 in)

42) A (Mean)
Grading Scale

0 incorrect = 10
1-3 incorrect = 9
4-6 incorrect = 8
7-9 incorrect = 7
10-12 incorrect = 6
13-15 incorrect = 5