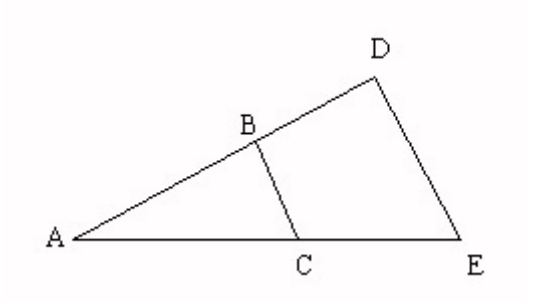
Name _____ Date _____

Similar Triangles

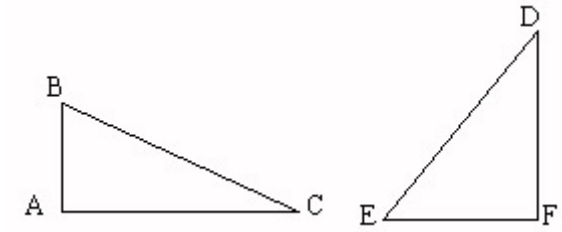
Complete.

1.



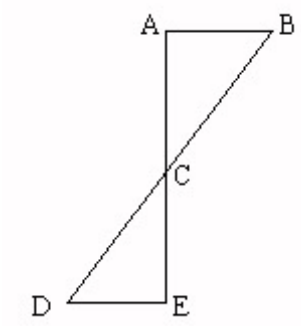
m∠C ≅ ∠E
m∠B ≅ ∠D
The length of the sides of ABC are 198, 90, and 108. The length of the longest side of ADE is 110, what is the perimeter of ADE?

2.



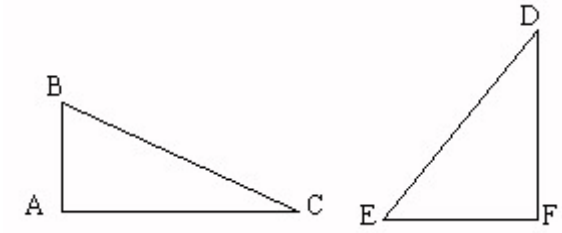
m∠C ≅ ∠D
m∠B ≅ ∠E
The length of the sides of ABC are 44, 36, and 34. The perimeter of FED is 456, what is the length of the longest side of FED?

3.



m∠B ≅ ∠E
The perimeter of smaller triangle ABC is 74. The lengths of two corresponding sides on the triangles are 33 and 198. One side of DEC is 120. What is the length of the corresponding side on ABC?

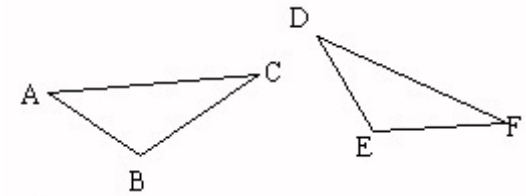
4.



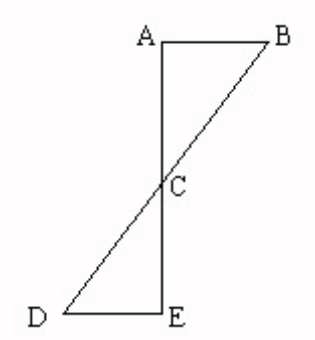
m∠C ≅ ∠D
m∠B ≅ ∠E
The length of the sides of ABC are 128, 112, and 116. The length of the smallest side of FED is 252, what is the length of the longest side of FED?

5.

6.



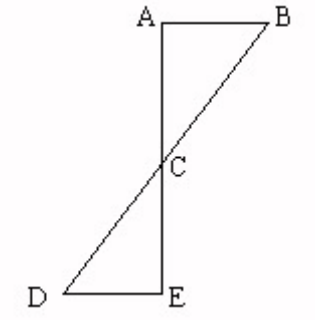
m∠B ≅ ∠E
m∠A ≅ ∠D



m∠A ≅ ∠D
The perimeter of smaller triangle ABC is 108. The lengths of two corresponding sides on the triangles are 43 and 86. What is the perimeter of DEC?

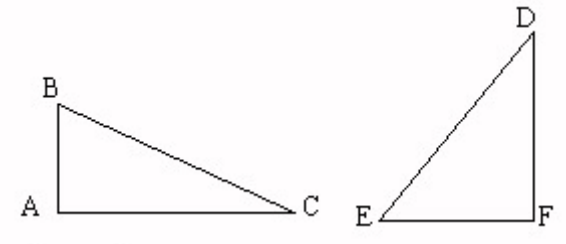
AC:DF = 3:10, and DE = 320, what is the length of AB?

7.



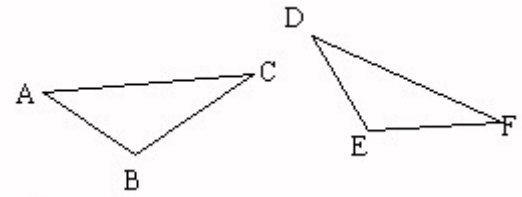
m∠A ≅ ∠D
The perimeter of smaller triangle ABC is 110. The lengths of two corresponding sides on the triangles are 37 and 222.

8.



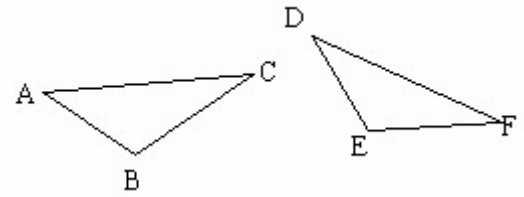
m∠B ≅ ∠E
m∠C ≅ ∠D
The perimeter of smaller triangle ABC is 124. The lengths of two corresponding sides on the triangles are 41 and 164.

9.



m∠B ≅ ∠E
m∠C ≅ ∠F
The length of the sides of ABC are 305, 245, and 310. The perimeter of DEF is 1548, what is the length of the longest side of DEF?

10.



m∠B ≅ ∠E
m∠A ≅ ∠D
The length of the sides of ABC are 504, 376, and 360. The length of the smallest side of DEF is 405, what is the length of the longest side of DEF?