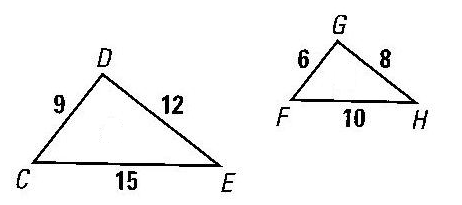
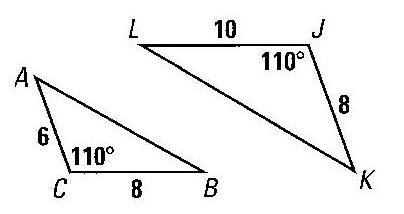
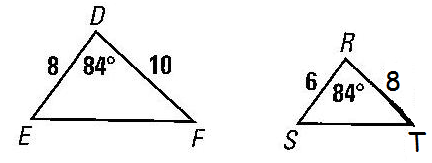
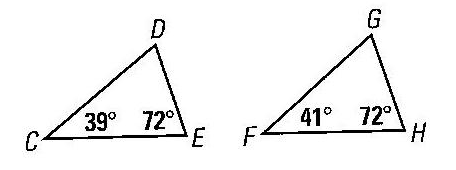
Geometry NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

P-Test Similarity Period \_\_\_\_

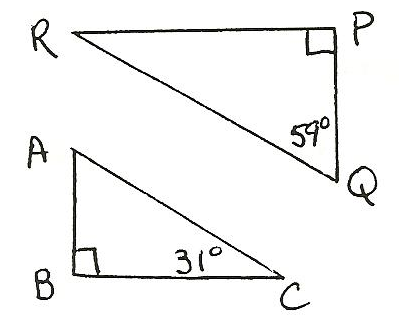
**Similar Triangle Theorems** Decide if the following triangles are similar.

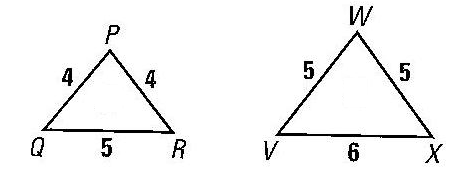
If they are, give a reason (AA, SAS, SSS) and write a similarity statement:

1. 2.

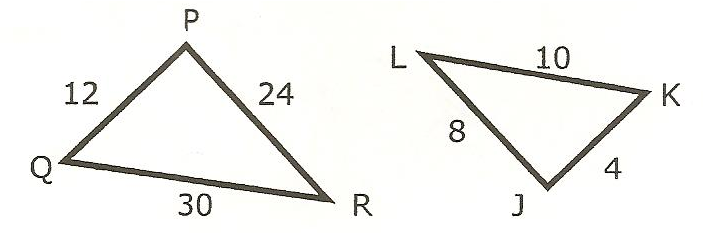
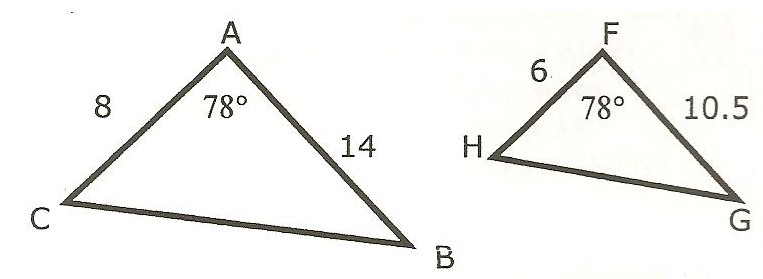


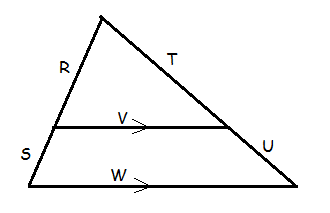
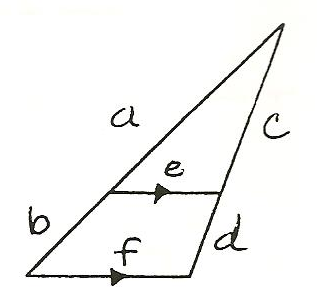
3. 4.





5. 6.

7. 8.

Complete the ratio based on the diagram.

7.  8. 

9. The Blackhawks won 8 games and lost 6. What is the ratio of wins to games played?

10. A twelve pound turkey costs $27.60. At the same rate, what would be the cost of a 20 pound

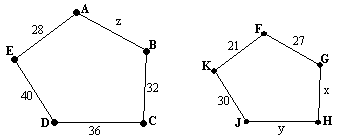
turkey?

11. The 1908 World champion Cubs won 99 games, and lost 55.

What is the ratio of games won to games lost?

What is the ratio of games won to games played?

**The two pentagons shown are similar.**

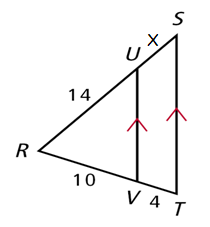


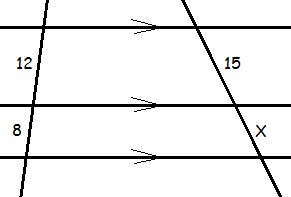
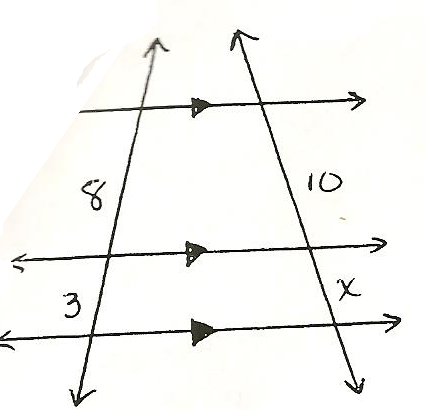
12. Find X

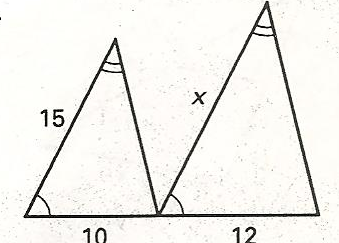
13. Find Y

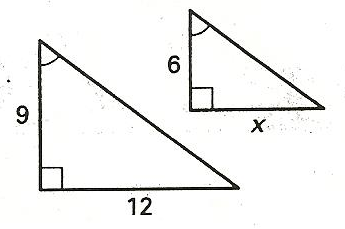
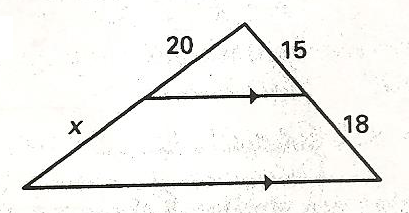
14. Find Z

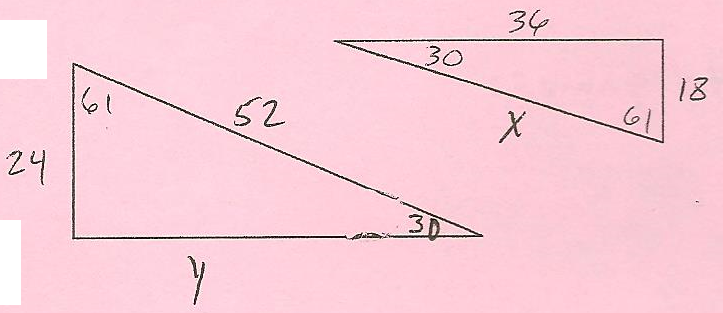
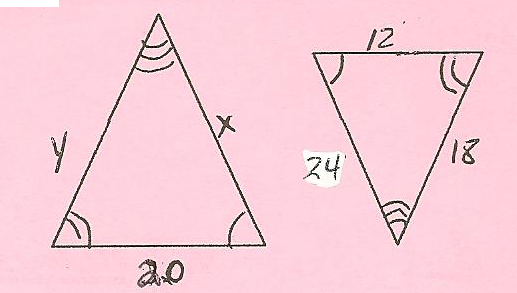
15. What is the SCALE FACTOR?

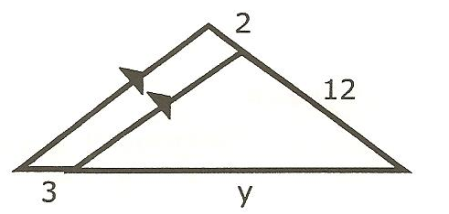
Solve for X:

15. 16. 17.

18. 19 20.



21. 22. 23.



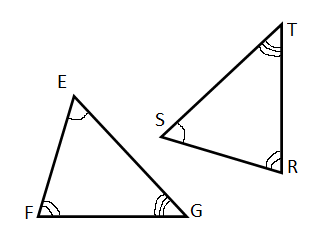
Solve for X:

24.  25.  26. 

27. Reduce the following ratio: 8 : 24 : 40

*28.* with a scale factor of 2 : 3. *AB* = 12 mm. What is the value of XY?

29. Complete the similarity Statement:



30. A 10 foot flagpole casts a 16 foot shadow. How tall is a building that casts a 60 foot shadow?

31. A Boeing 747 is 150 ft long. A scale model of the plane is 12 inches long, and 4 inches tall. How tall

is the real plane?