Name: _____ **Class:** _____ **Date:** _____ **ID: A**

Test 2 - 3rd 9 Weeks Study Sheet

Short Answer

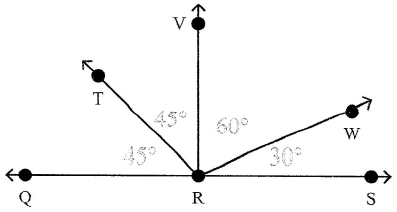
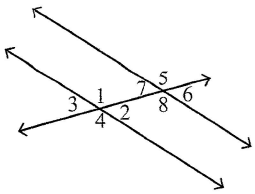


Figure 5-3

1. Name a pair of complementary angles in Figure 5-3 above.

2. Name one pair of supplementary angles in Figure 5-3 above.



3. Use the figure above to answer the following questions.
   a) What type of angles are <7 & <2?
   b) What type of angles are <5 & <8?
   c) What type of angles are <3 & <5?
   d) What type of angles are <4 & <8?
   e) What type of angles are <6 & <3?

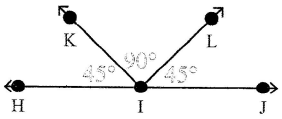


Figure 5-4

4. Name a pair of complementary angles in Figure 5-4 above.

5. Name one pair of supplementary angles in Figure 5-4 above.

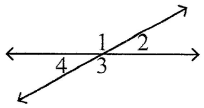


Figure 5-5

6. In Figure 5-5 above, if m∠2 = 30°, find m∠4.

7. In Figure 5-5 above, if m∠2 = n°, write an expression to find m∠3.

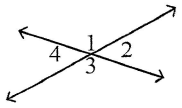
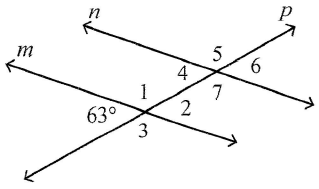


Figure 5-6

8. In the figure above, if m∠2 = 75°, find m∠4.

9. In Figure 5-6 above, if m∠1 = h°, write an expression to find m∠3.

In the figure, line m // line n. Find the measure of each given angle.



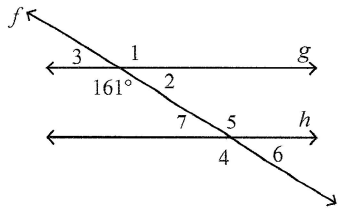
10. ∠4

11. ∠1

12. ∠7

Name: _____ **ID: A**

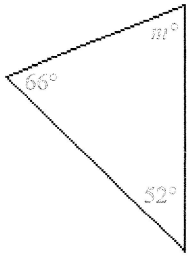
In the figure, line g // line h. Find the measure of each given angle.



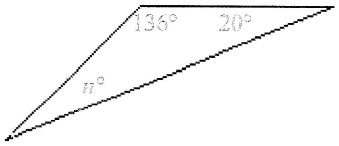
13. $\angle 4$

14. $\angle 2$

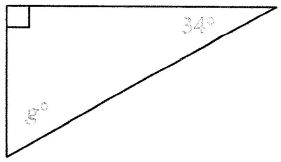
15. Classify the triangle by its angles and its sides.



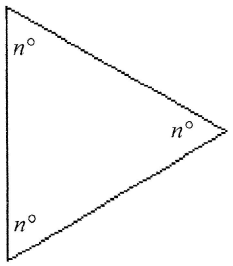
16. Classify the triangle by its angles and its sides.



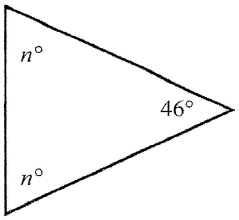
17. Classify the triangle by its angles and its sides..



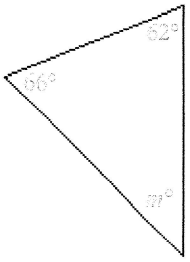
18. Classify the triangle by its angles and its sides.



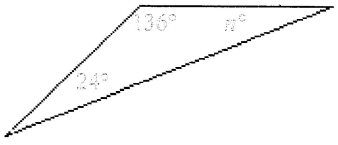
19. Classify the triangle by its angles and its sides.



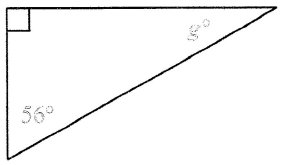
20. Find *m* in the acute triangle.



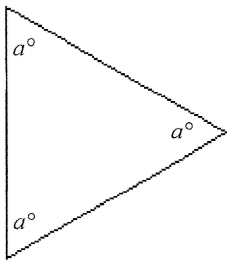
21. Find *n* in the obtuse triangle.



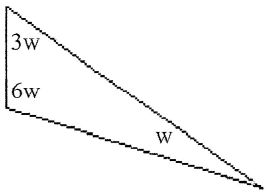
22. Find g in the right triangle.



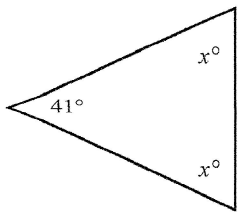
23. Find the angle measures in the equilateral triangle.



24. Find the missing angle measures in the scalene triangle.



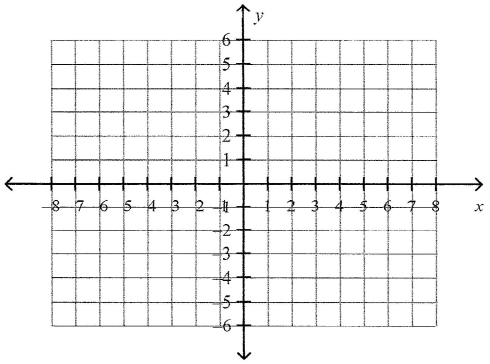
25. Find the missing angle measures in the isosceles triangle.



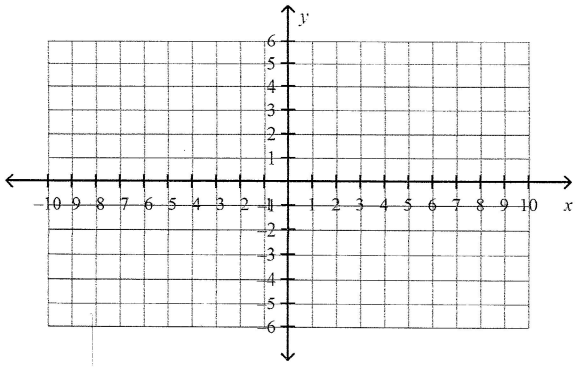
26. The second angle in a triangle is 3 times as large as the first. The third angle is $\frac{1}{3}$ as large as the second. Find the angle measures.

27. The second angle in a triangle is $2\frac{1}{2}$ times as large as the first. The third angle is $\frac{2}{5}$ as large as the second. Find the angle measures.

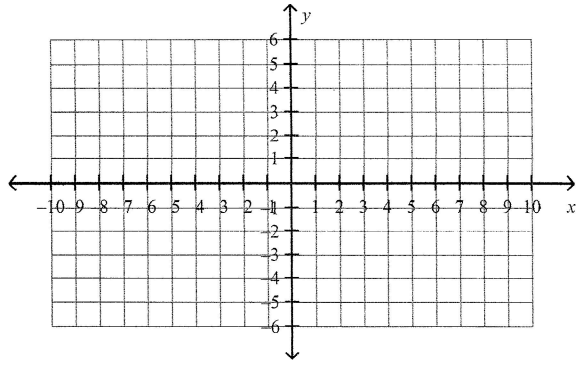
28. A triangle has vertices A(2, 3), B(3, 5), and C(5, 3). What are the coordinates for B' and C' after the following transformation: rotate 90^0 clockwise around A.



29. A triangle has vertices A(1, 3), B(2, 5), and C(4, 3). What are the coordinates for A' and B' after the following transformation: rotate 90^0 counter clockwise around C.



30. A triangle has vertices A(1, 1), B(2, 3), and C(4, 1). What are the coordinates for B' and C' after the following transformation: rotate 180^0 counter clockwise around A.



31. What are the two square roots of the number 64?

32. What are the two square roots of the number 196?

33. What are the two square roots of the number 36?

34. What are the two square roots of the number 225?

35. A square room has a tiled floor with 81 tiles. How many tiles are along the edge?

36. A square mosaic is made of small pieces of glass. If there are 225 pieces of glass, how many are along the edge?

37. What two integers are $\sqrt{26}$ between?

38. What two integers are $\sqrt{159}$ between?

39. Use a calculator to estimate $\sqrt{393}$ to the tenths place.