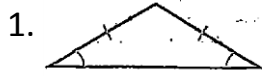
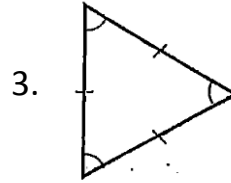


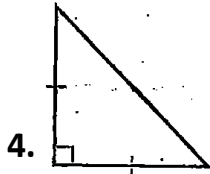
Triangle Practice Monday February 29, 2016

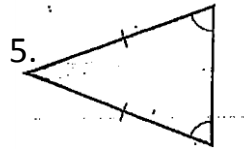
Classify each triangle. **Write isosceles, scalene, or equilateral. Then write acute, obtuse, or right.**

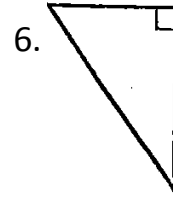




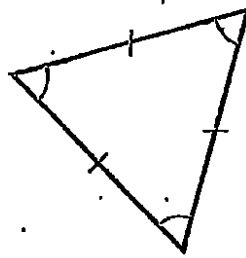
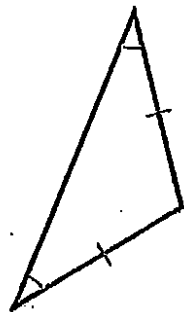
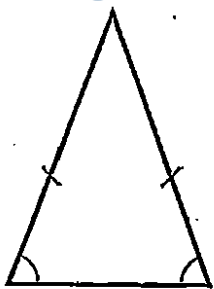








7. Circle the figure that does not belong? Explain your reasoning.

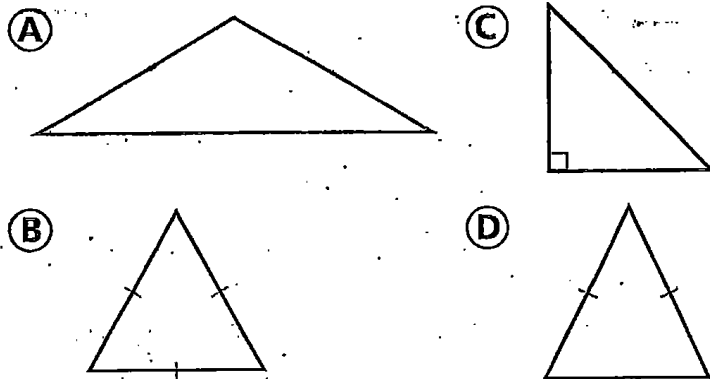


8. Sydney drew a triangle with no congruent sides and a 95° angle. Classify the triangle by the lengths of its side and measures of its angles. Draw Sydney's triangle and explain why and how you classified the triangle.

9. Johnny drew a triangle with angles measuring 90° , 30° , and 60° , and no congruent sides. Which of these describes the triangle?

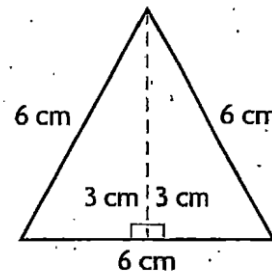
- A. Isosceles right
- B. Equilateral obtuse
- C. Scalene acute
- D. Scalene right

10. Which of these triangles is isosceles and obtuse?



11. Gina drew the triangle to the right, and then drew the dotted line down the center. What type of triangle did she draw **first**? What triangles resulted from the dotted line?

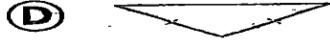
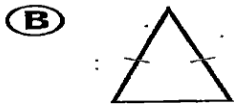
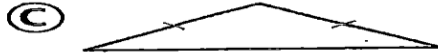
- A. Right: two scalene obtuse triangles
- B. Equilateral: two right triangles
- C. Scalene right: two right triangles
- D. Isosceles acute: two equilateral triangles



12. What kind of triangles has exactly two congruent sides? Draw and explain.

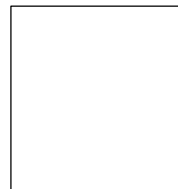
13. What kind of triangle have 3 congruent sides? Draw and explain.

14. Which of these triangles is isosceles and acute?



15. Bob cut a square tile, as shown to the right, in half for his kitchen floor design. He made one cut along a diagonal from one vertex to another vertex. Which triangles resulted from the cut?

- A. Two scalene right triangles
- B. Two isosceles obtuse triangles
- C. Two isosceles right triangles
- D. Two equilateral triangles



16. Mrs. Waters has a rug that is an equilateral triangle with a perimeter of 12 feet. Which could be the lengths of the sides of the rug?

- A. 4 ft., 4 ft., 4 ft.
- B. 5 ft., 5 ft., 2 ft.
- C. 3 ft., 3 ft., 3 ft.
- D. 3 ft., 4 ft., 5 ft.

For questions 17-25. Is it possible to draw the triangles described? Answer by writing **possible** or **impossible**!

17. An equilateral triangle with sides measuring 8 cm, 9 cm, and 10 cm.
18. A scalene triangle with sides measuring 7 in, 7 in, and 8 in.
19. An acute triangle with angles measuring 60° , 62° , and 58° .
20. An obtuse triangle with angles measuring 45° , 89° , and 46° .
21. An isosceles triangle with sides measuring 16 ft., 20 ft., and 22 ft.
22. A right triangle with angles measuring 35° , 78° , and 67° .
23. An isosceles, right triangle with angles measuring 45° , 90° , and 45° , and with sides measuring 5 cm, 6 cm, and 5 cm.
24. An obtuse, right triangle.
25. An obtuse, scalene triangle.

Name _____