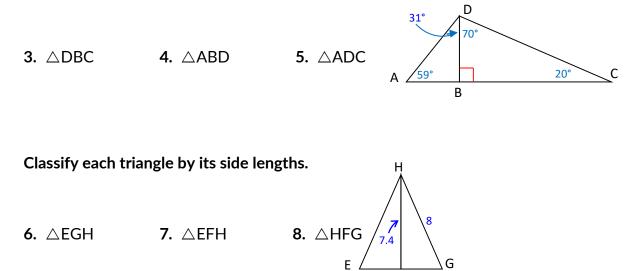
Name: _____

Classify Triangles

- **1.** In \triangle JKL, JK, KL, and JL are *equal*. How does this help you classify \triangle JKL by its side lengths?
- **2.** \triangle XYZ is an *obtuse triangle*. What can you say about the types of angles in \triangle XYZ?

Classify each triangle by its angle measures.

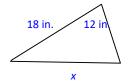


Classify each triangle by its side lengths.

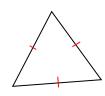
9. P = 49 in.

10. P = 22.5 yd

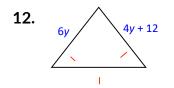
11. P = 84.3 cm

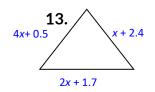


6.3 yd



Find the side lengths of each triangle.





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Classify each triangle by its angle measure.

14. △BEA

15. △DBC

16. △ABC

Classify each triangle by its side lengths.

17. △PST

18. △RSP

19. △RPT

20.

Find the side lengths of each triangle.

z + 5

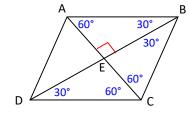


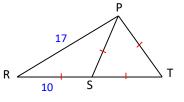
- 22. Draw a triangle large enough to measure. Label the vertices X, Y, and Z.
 - a. Name the three sides and three angles of the triangle.
 - **b.** Use a ruler and protractor to classify the triangle by its side length and angle measures.

21.

23. The perimeter of a triangle is 29 millimeters. The length of the first side is twice the length of the second side. The length of the third side is 5 more than the length of the second side. Find the side lengths of the triangle.

Then classify the triangle by its side lengths.





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Grade 7

Draw an example of each type of triangles or explain why it is not possible.

24. Isosceles right

25. Equiangular obtuse

26. Scalene right

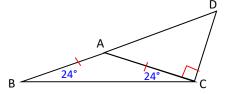
27. Equilateral acute

28. Scalene equiangular

29. Isosceles acute

30. An equilateral triangle has a perimeter of 105 in. What is the length of each side of the triangle?

Classify each triangle by its angles and sides.



31. △ABC

32. △ACD

33. An isosceles triangle has a perimeter of 34 cm. The congruent sides measure (4x - 1) cm. The length of the third side is x cm. What is the value of x?

