LESSON 4.1

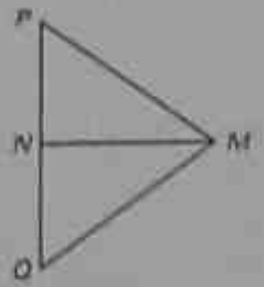
NAME _____ DATE _____

Practice B

For use with pages 194–201

Lesson 4.1

In the figure, $\overline{MN} \perp \overline{OP}$ and $MP = MQ$. Complete the sentence.

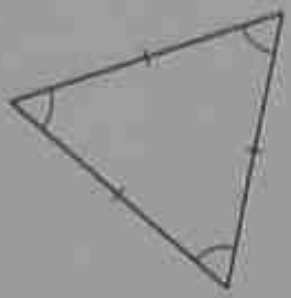


1. Name the legs of isosceles triangle $\triangle PMQ$.
2. Name the base of isosceles triangle $\triangle PMQ$.
3. Name the hypotenuse of right triangle $\triangle PNM$.
4. Name the legs of right triangle $\triangle PNM$.
5. Name the acute angles of right triangle $\triangle QNM$.

Classify the triangle by its angles and by its sides.

6. 

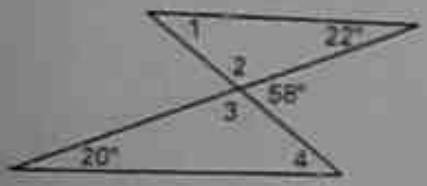
7. 

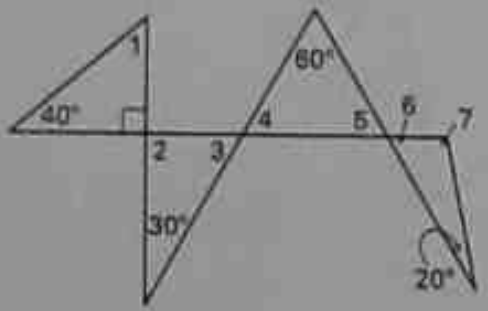
8. 

Classify the sentence with *always*, *sometimes*, or *never*.

9. An isosceles triangle is _____ a right triangle.
10. An obtuse triangle is _____ a right triangle.
11. A right triangle is _____ an equilateral triangle.
12. A right triangle is _____ an isosceles triangle.

Find the measure of the numbered angle.

13. 

14. 

The variable expressions represent the angle measures of a triangle. Find the measure of each angle. Then classify the triangle by its angles.

15. $m\angle A = (x + 30)°$
$m\angle B = x°$
$m\angle C = (x + 60)°$

16. $m\angle A = (6x + 11)°$
$m\angle B = (3x + 2)°$
$m\angle C = (5x - 1)°$

17. $m\angle A = 2x°$
$m\angle B = (3x - 10)°$
$m\angle C = (110 - x)°$