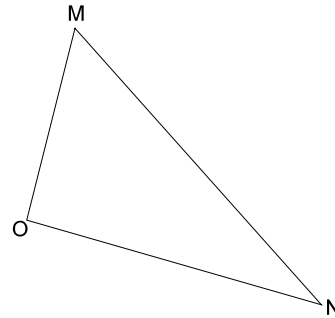


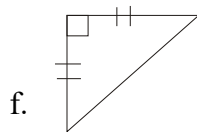
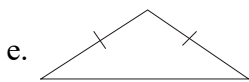
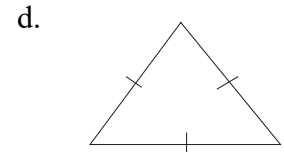
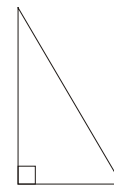
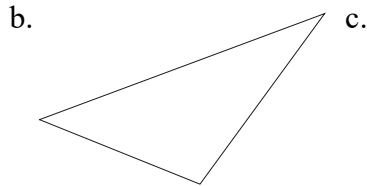
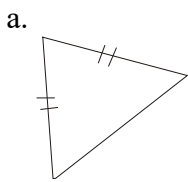
GEOMETRY 4: TRIANGLES

1. In  $\triangle MON$  name:

- a. the angle opposite  $\overline{MO}$
- b. the side opposite  $\angle MNO$
- c. the side opposite  $\angle O$
- d. the angle opposite  $\overline{ON}$



2. Classify the following triangles as either acute, right or obtuse triangles, as well as scalene, isosceles or equilateral triangles.

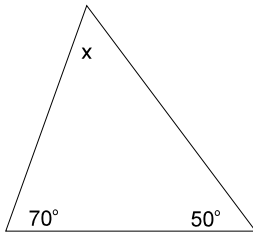


3. Fill in the blanks with the correct answer.

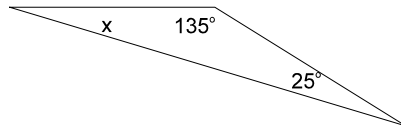
- An equilateral triangle has \_\_\_\_\_ congruent sides and three \_\_\_\_\_ angles each measuring \_\_\_\_\_.
- An isosceles triangle has \_\_\_\_\_ congruent sides. The angles opposite these congruent sides are \_\_\_\_\_.
- The sum of the interior angles of any triangle is always \_\_\_\_\_.
- If a triangle has two congruent angles, then the sides opposite the congruent angles are \_\_\_\_\_.

4. Determine the measure of angle  $x$  in each of the following diagrams.

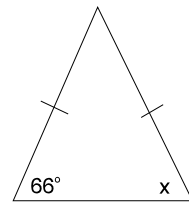
a.



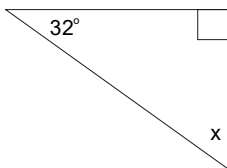
b.



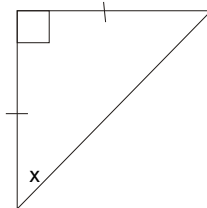
c.



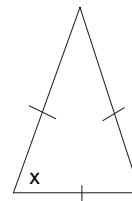
d.



e.



f.



## ANSWER KEY

1. a.  $\angle N$  or  $\angle MNO$     b.  $\overline{MO}$     c.  $\overline{MN}$     d.  $\angle M$
2. a. acute and isosceles    b. obtuse and scalene    c. right and scalene  
d. acute and equilateral    e. obtuse and isosceles    f. right and isosceles
3. a. three congruent  $60^\circ$     b. two congruent    c.  $180^\circ$     d. congruent
4. a.  $60^\circ$     b.  $20^\circ$     c.  $66^\circ$     d.  $58^\circ$     e.  $45^\circ$     f.  $60^\circ$

Source: Government of BC used with permission.