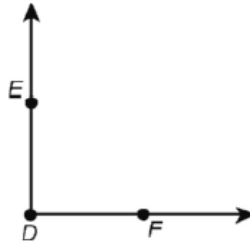


LESSON
1-3

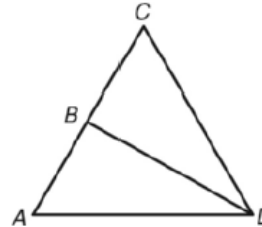
Practice B
Measuring and Constructing Angles

Draw your answer on the figure.

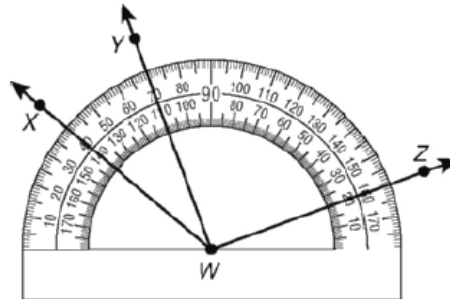
1. Use a compass and straightedge to construct angle bisector \overline{DG} .



2. Name eight different angles in the figure.



Find the measure of each angle and classify each as acute, right, obtuse, or straight.



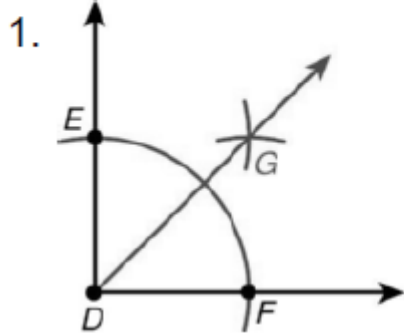
3. $\angle YWZ$ 4. $\angle XWZ$ 5. $\angle YWX$

T is in the interior of $\angle PQR$. Find each of the following.

6. $m\angle PQT$ if $m\angle PQR = 25^\circ$ and $m\angle RQT = 11^\circ$. _____
7. $m\angle PQR$ if $m\angle PQR = (10x - 7)^\circ$, $m\angle RQT = 5x^\circ$, and $m\angle PQT = (4x + 6)^\circ$. _____
8. $m\angle PQR$ if \overline{QT} bisects $\angle PQR$, $m\angle RQT = (10x - 13)^\circ$, and $m\angle PQT = (6x + 1)^\circ$. _____
9. Longitude is a measurement of position around the equator of Earth. Longitude is measured in degrees, minutes, and seconds. Each degree contains 60 minutes, and each minute contains 60 seconds. Minutes are indicated by the symbol ' and seconds are indicated by the symbol ". Williamsburg, VA, is located at $76^\circ 42' 25''$. Roanoke, VA, is located at $79^\circ 57' 30''$. Find the difference of their longitudes in degrees, minutes, and seconds. _____
10. To convert minutes and seconds into decimal parts of a degree, divide the number of minutes by 60 and the number of seconds by 3,600. Then add the numbers together. Write the location of Roanoke, VA, as a decimal to the nearest thousandths of a degree. _____



Practice B



2. $\angle A$, $\angle C$, $\angle ABC$, $\angle ABD$, $\angle ADB$, $\angle ADC$,
 $\angle CBD$, and $\angle CDB$

3. 90° ; right

4. 120° ; obtuse

5. 30° ; acute

6. 14°

7. 123°

8. 44°

9. $3^\circ 15' 05''$

10. 79.958°