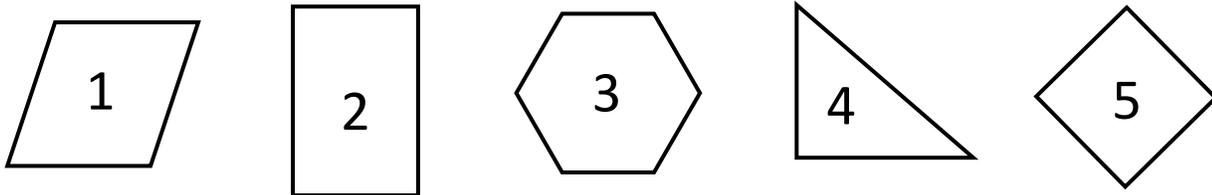






4. What is a different way that the seven figures could be sorted? Fill in the chart below with two titles to name a different way the figures could be classified. Then, write the number of each figure in the chart to show the group in which each figure belongs.


5. Look at the figures below.



Caroline decided to sort the figures based on their angles. She sorted them into the two categories shown in the chart to the right.

Look at the **angles** in each of the five figures. Describe how the figures in group A are different than the figures in group B.

Group A	Group B

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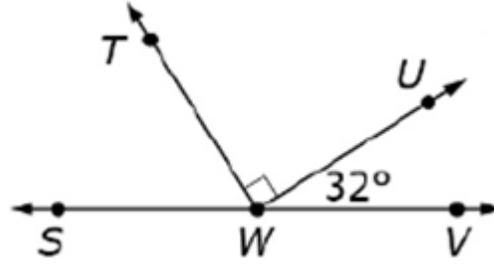




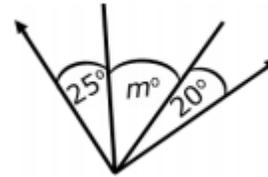
**4.MD.C.7** I can recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems

12. Use the figure to the right to answer the question.

What is the measure of  $\angle$  SWT?



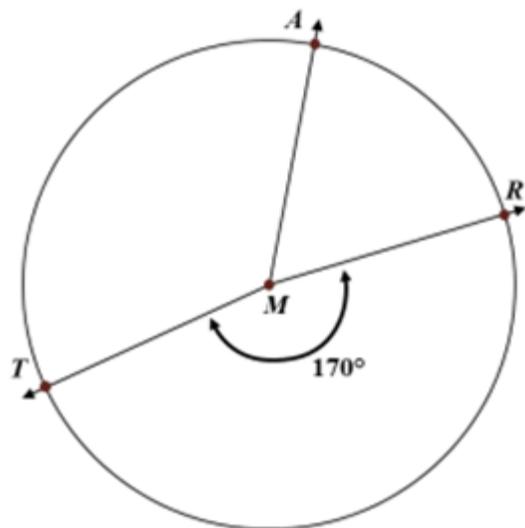
13. If the two rays are perpendicular, what is the value of  $m$ ?



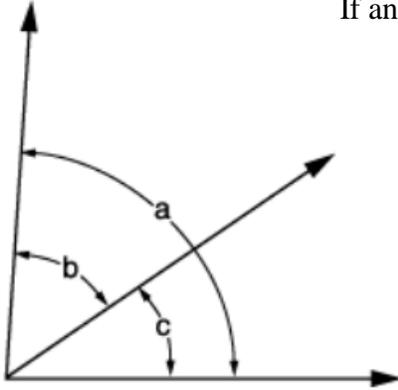
14. The circle below is divided into three angles, angle AMT, angle RMT, and angle AMR.

- The sum of the three angles is  $360^\circ$
- Angle RMT measures  $170^\circ$
- Angle AMT is **about** twice as large as angle AMR.

What are possible measurements for angle AMT and angle AMR?  
(You cannot use a protractor.)



15.



If angle  $a$  measures  $85^\circ$  and angle  $b$  measures  $52^\circ$ , what does angle  $c$  measure?

- A.  $33^\circ$
- B.  $38^\circ$
- C.  $137^\circ$
- D. not enough information

16. If you have an angle of  $135^\circ$  and split it into three angles one angle is a right angle, one angle measures  $35^\circ$ , what is the measure of the third angle? Write an equation you could use to find the third angle letting  $u$  represent the unknown angle. (show your thinking)

17. In the figure,  $ABCD$  is a rectangle and  $\angle CAD = 31^\circ$ . Find  $\angle BAC$ .

