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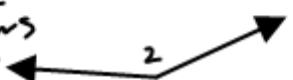
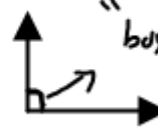
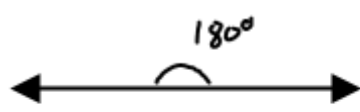
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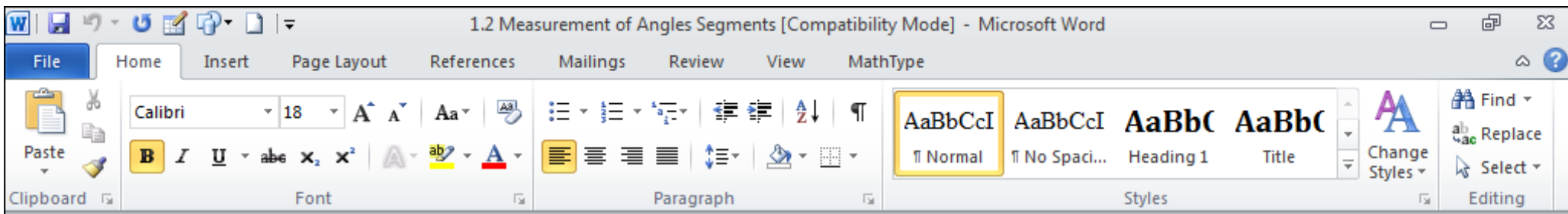
1.2. Honors Geometry

DATE: 9/4

Target 1A. Recognize and identify the basic terms of geometry.

Word	Definition	Picture
1) Acute \angle	$0^\circ < \text{Acute} < 90^\circ$	" $\angle 1$ appears acute" 
2) Obtuse \angle	$90^\circ < \text{obtuse} < 180^\circ$	" $\angle 2$ appears obtuse" 
3) Right \angle	90°	"box means 90° " 
4) Straight \angle	180°	180° 

Important Distinctions



Important Distinctions	
Angles congruent $\angle A \cong \angle B$ ↳ congruent	Angles equal in measure $\angle A = 70^\circ = \angle B$ or $m\angle A = 70^\circ = m\angle B$
Segments congruent $\overline{AB} \cong \overline{AC}$	Segments equal in measure $m\overline{AB} = 7\text{cm} = m\overline{AC}$ $AB = 7\text{cm} = AC$

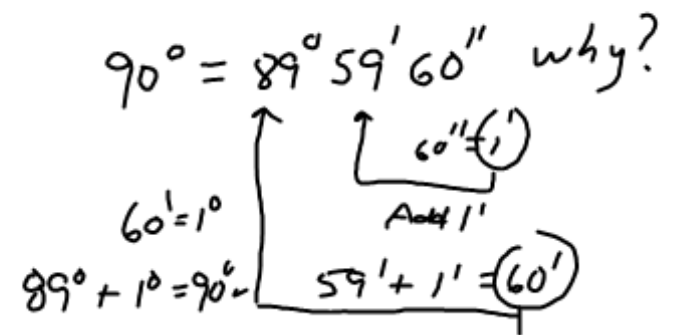
Parts of a Degree

60' = 1° (60 minutes equals 1 degree)
 60" = 1' (60 seconds equals 1 minute)

$$180^\circ = 179^\circ 59' 60''$$

deg min sec

"Has nothing to do with the clock"



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Examples

1) Convert 37.8° to degrees and minutes.

$$37.8^\circ = \underset{\text{deg}}{37}^\circ \underset{\text{min}}{48}'$$

$$0.8(60) = 48'$$

2) Convert $52^\circ 18'$ to degrees.

$$52^\circ 18' = 52 \frac{3}{10}^\circ \text{ or } \underset{\text{deg}}{52.3}^\circ$$

$$\frac{18 \div 6}{60 \div 6} = \frac{3}{10} = 0.3$$

3) Given: $\triangle ABC$ is a right angle



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Paragraph

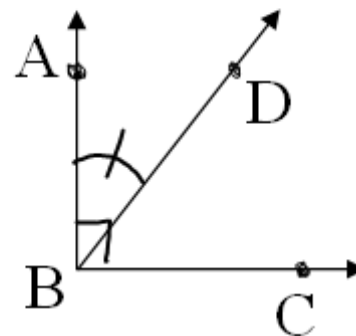
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3) Given: $\angle ABC$ is a right angle $= 90^\circ$
 $\angle ABD = 64^\circ 29' 18''$

Find: $\angle DBC$.

(Leave answer in degree/minute/second form)



$$\begin{array}{r}
 \angle ABC \\
 - \angle ABD \\
 \hline
 \angle DBC
 \end{array}
 \left. \begin{array}{l} \\ \\ \end{array} \right\} \rightarrow \left. \begin{array}{l} 90^\circ \\ - 64^\circ 29' 18'' \end{array} \right\} \rightarrow \begin{array}{l} 89^\circ 59' 60'' \\ - 64^\circ 29' 18'' \\ \hline
 25^\circ 30' 42''
 \end{array}$$

Final ans.