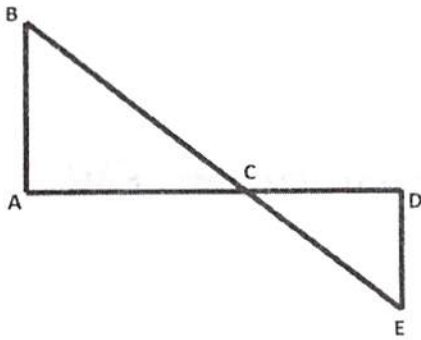


1) Directions: Use the given figure to place each statement under the correct category.



- |   |  |
|---|--|
| $\overleftrightarrow{ACD}$ and $\overleftrightarrow{BCE}$ are straight lines. | $\angle B \cong \angle E$ .                      |
| $\angle BAC$ is a right angle.  | $\angle CDE$ is an obtuse angle.                 |
| $\overline{CD} \cong \overline{DE}$   | E is to the right of A.                          |
| $\angle BCE$ is a straight angle.   | $\overline{BC}$ is longer than $\overline{CE}$ . |
| C, D, & E are noncollinear.   | C is between B and E.                            |

DO ASSUME

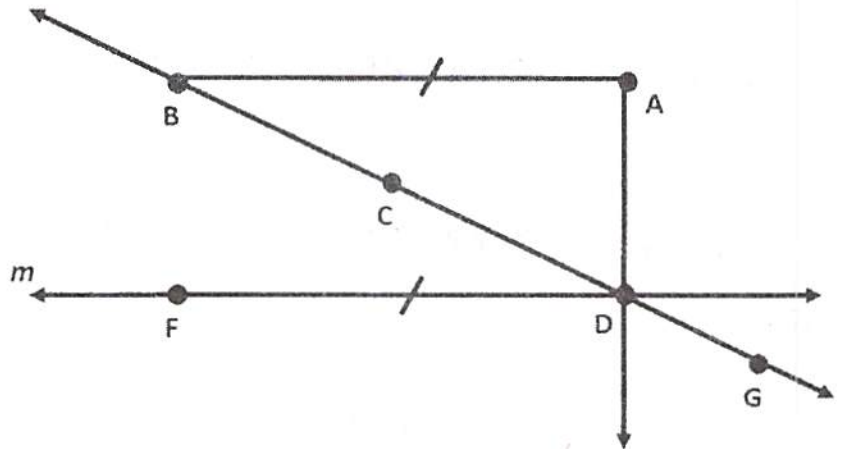
$\overleftrightarrow{ACD}$  &  $\overleftrightarrow{BCE}$  are str. lines  
 $\angle BCE$  is a str.  $\angle$   
 C, D, & E are noncollinear  
 C is between B & E

DO NOT ASSUME

$\angle BAC$  is a right  $\angle$   
 $\overline{CD} \cong \overline{DE}$   
 $\angle B \cong \angle E$   
 $\angle CDE$  is an obtuse  $\angle$   
 \* E is to the right of A  
 $\overline{BC}$  is longer than  $\overline{CE}$

2) In the following figure, what assumptions can we make?

- a) C lies on  $\overline{BD}$ .  
Yes
- b)  $\angle A$  is a right angle.  
No
- c)  $\overline{AB} \cong \overline{FD}$   
Yes
- d) D lies on  $m$ .  
Yes
- e) B, C, & G are collinear.  
Yes
- f)  $\overline{AB}$  is parallel to  $\overline{FD}$ .  
No
- g) C is the midpoint of  $\overline{BD}$ .  
No
- h)  $\triangle ABD$  is a triangle.  
Yes
- i) B lies on  $\overline{GC}$ .  
Yes



Directions: Explain what the symbol or phrase means.

3)  $\overline{AB} \parallel \overline{DE}$

Segment AB is parallel to segment DE

4)  $JK = RW$

The measure of JK is equal to the measure of RW

5) A, B, & C are collinear

A, B, & C all lie on the same line

6)  $\angle J$  and  $\angle T$  are supplementary

$$m\angle J + m\angle T = 180^\circ$$

7)  $m\angle ABC = 30^\circ$

The measure of  $\angle ABC$  equals  $30^\circ$

8)  $\angle W \cong \angle H$

$\angle W$  is congruent to  $\angle H$

9)  $m\angle W = m\angle H$

The measure of  $\angle W$  equals the measure of  $\angle H$

10)  $\angle Q$  and  $\angle F$  are complementary

$$m\angle Q + m\angle F = 90^\circ$$

11)  $\overline{PJ} \perp \overline{HI}$

Line PJ is perpendicular to segment HI

12)  $\overline{RW}$  bisects  $\angle Y$

segment RW bisects  $\angle Y$