1.2 - bat *ar Measure*

Goals Aligned to Common Core State Standards:

- You will identify and model points and lines.
- You will identify, model, and calculate line segments, congruent segments, and segment addition postulate.
- You will construct a segments that is congruent to a given segment.
- MP 4,5,6

Point

- Model:
- $P$
- Symbols:

$$
\text { point } P
$$

Line

- Model:

- Symbols:

$$
\underset{M D}{\operatorname{line}}, n, \stackrel{n}{D M}, \overrightarrow{J D}
$$

Collinear - 2 or more pts on the same line

- Line segment
- Model:
- Symbols line segment(object):

$$
\overline{X Y}
$$

- Symbols for length or measure of a line segment:

$$
X Y
$$

Segment Addition Postulate

3. Find the value of $x$ and $S T$ if $T$ is between $S$ and $U, S T=7 x, S U=45$, and $T U=5 x-3, \quad T=28$


Congruent Segment Model:


Example :
Use the diagram to determine whether $\overrightarrow{A B}$ and $\overline{C D}$ are congruent.


$$
\frac{A T}{p a r t}+\frac{T B}{p a r t}=\frac{A B}{w h o l e}
$$

2. Find $B C$

3. Find the value of $x$ and $B C$ if $B$ is between $C$ and $D . C B=2 x$, $C D=42$, and $B D=12$.


Symbols:

$$
\overline{A B} \cong \overline{C D}
$$



## Example 2:

Use the diagram to determine whether $\overline{A B}$ and $\overline{C D}$ are congruent.


## Pg. 17 Copy a Segment

Goals Aligned to Common Core State Standards:

- You can identify and model points and lines.
- You can identify, model, and calculate line segments, congruent segments, and segment addition postulate.
- You can construct a segments that is congruent to a given segment.

Homework:
Pg. 18 \# 15-19odd, 20-26, 27-31 odd, 37, 40 and
1.) $\frac{1}{3}+\frac{2}{3}=$
2.) $\frac{2}{3}+\frac{5}{4}=$
3.) $\frac{3}{4}-\frac{1}{3}=$
4.) $\frac{2}{3} \cdot \frac{5}{4}=$
5.) $\frac{2}{3} \div \frac{5}{4}=$

"What do you expect? My edition of the math book doesn' $\dagger$ have the answers in it like yours does."

