
to

$\frac{\text { ENTRY-TEST }}{\text { Section } 1}$


1. In the figure above, what do the slash marks on segments symbolize?
2. In the figure above, what do the arcs symbolize?
3. What type of triangle is the figure above?

## Section 2



1. In the figure above, what do the arrows symbolize?
2. In the figure above, What does the box symbolize?
3. What type of triangle is $\triangle A B E$ ?

## Section 3

What do the following symbols represent?

1. $\cong$
2. $\perp$
3. =
4. ||
5. $\angle$
6. $\Delta$
7. $\overline{A B}$
8. $m \angle$

## Unit 1 ASSESSMENT



1. $\angle 1 \cong \angle 2$
2. $\angle 3 \cong \angle 4$
3. $\overline{A B} \cong \overline{D C}$
4. $A D \cong B C$
5. $A B \| C D$
6. $A D \perp D C$
A D
B


Section 2 postulate, definition, or theorem.

1. If $X$ is the midpoint of $\overline{B D}$, then $\overline{D X} \cong \overline{B X}$.

B $\quad \mathrm{X} \quad \mathrm{D}$
2. If $\angle B C A$ and $\angle E C D$ are vertical angles, then $\angle B C A \cong \angle E C D$.

3. If three corresponding segments of two triangles are congruent, then all the corresponding parts of the triangles are congruent.

4. If two corresponding sides and their included angles are congruent in two triangles, then all the corresponding parts of the two triangles are congruent.

5. If two corresponding angles and their included side are congruent in two triangles, then all the corresponding parts of the two triangles are congruent.

6. If $\overline{Q S}$ bisects $\angle P Q R$, then $\angle P Q S \cong \angle S Q R$.

7. If $A B$ bisects $D C$ at point $E$, then $D E \cong E C$.
D

|  |  |
| :--- | :--- |
|  | E |
|  |  |
|  |  |
|  |  |

B
8. If $B C \| D E$ then $\angle 1 \cong \angle 2$.


Section 3

1. re-write the following paragraph proof in two-column form.
"Given that $M$ is the midpoint of $A B$, the measure of $A M$ is equal to the measure of MB by definition of midpoint. AM must then be congruent to MB by definition of congruent segments."

## Unit 2 ASSESSMENT

$\frac{\text { Section } \frac{1}{\text { Given: }} \overline{E F} \cong \overline{G H} \& \overline{E H} \cong \overline{G F}}{}$
Prove: $\quad \triangle E F H \cong \Delta G H F$


1. What is the given statement in the problem above?
2. What is supposed to be proven in the problem above?

Section 2
Label the diagrams and identify the relationship between the given and prove statements by writing a conclusion in sentence form.

1. Given: $\overline{P H}$ bisects $\angle Y H X$. $H P \perp Y X$.
Prove: $\quad \triangle Y H P \cong \triangle X H P$.

2. Given: $B E$ bisects $A D$ and $\angle A \cong \angle D$.


Section 1

1. Draw a t-chart and label the two columns "statements" and "justifications" respectively.

Section 2

1. Enter the given statement and it's justification into the chart using the following information.

Given: $\quad \angle A \cong \angle B \& \angle 1 \cong \angle 2$.

| Statements | Justifications |
| :--- | :--- |
|  |  |
|  |  |

2. Enter the given statement and it's justification into the chart using the following information.

Given: $\overline{A B}$ bisects $\overline{D C} \& \overline{A B} \perp \overline{D C}$


Unit 4 Assessment
Section 1

1. Write a conclusion about what can be assumed and why from the statement and diagram below.

Given: $\quad \angle 1 \cong \angle 2$

2. Write a conclusion about what can be assumed and why from the statement and diagram below.

Given: $\overline{M O} \cong \overline{P O} \& \overline{N O}$ bisects $\overline{M P}$.


Section 2
Using your conclusion statements from problems 1 \& 2 in The previous section, write the statements and justification in two-column format.
1.

| Statements |  |
| :--- | :--- |
| 1. $\angle 1 \cong \angle 2$ |  |

Unit 5 Assessment
Section 1
Write a two-column proof for the following G

1. Given: $\overline{G K} \perp \overline{M R} \& \overline{G K}$ bisects $\overline{M R}$.

Prove: $\quad \triangle M G K \cong \triangle R G K$

2. Given: $\overline{R L} \cong \overline{D C} \& \overline{L C} \cong \overline{R D}$.

Prove: $\quad \triangle L D R \cong \triangle D C L$
$\longrightarrow L$

D

STOP

