

Basic Plane Geometry Concepts

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SYMBOL:

DRAWING:

Point – a position in space

P

Line – a set of points that continues without end in both directions

LINE RELATIONSHIPS:

Intersecting – meet at one point

Perpendicular – intersect to form a right angle

Parallel – lines in the same plane that never intersect

Skew – lines in different planes that never intersect

Line Segment – a part of a line, bounded by two endpoints

Ray – a part of a line that is bounded by one endpoint and continues without end in the other direction

Angle – two rays that intersect at a common point, called the vertex

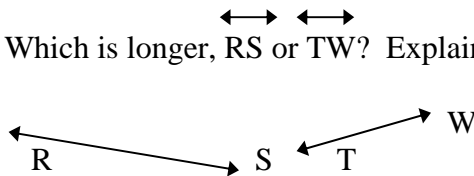
$\angle GHJ$

Plane – a flat surface, with or without boundary

$\triangle ABC$

Apply the concepts above to answer each of the following.

[1] Which is longer, RS or TW? Explain your reasoning.



[2] Draw $\angle RBC$ and $\angle XBC$.

[3] How many line segments will the points below determine?



[4] If $\overline{AB} \perp \overline{BC}$ and $\overline{BC} \perp \overline{CD}$, what can you say about \overline{AB} and \overline{CD} ? Explain your reasoning.