

As we discuss the terminology for this lesson, write the term being defined in the blank for each statement. Draw the item and write its notation in the space provided.

1. "Undefined" Terms:

- (a) A \_\_\_\_\_ is purely a location in space, without length, width, or height.

Drawing

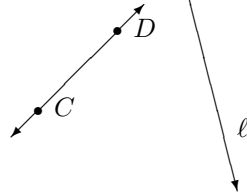
• A

Notation

A

- (b) A \_\_\_\_\_ is a set of points extending infinitely in two opposite directions.

Drawing



Notation

$\overleftrightarrow{CD}$

$l$

**BEWARE:** Just because something doesn't "show" in a picture doesn't mean it doesn't exist!  
There IS a point where these lines will intersect; it's just not drawn right now.

- (c) A \_\_\_\_\_ is a set of points extending infinitely in length and width, but having no thickness.

Drawing

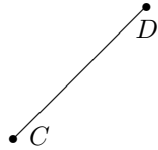
Notation

- (d) \_\_\_\_\_ is the set of all points, without boundary.

2. Parts of Lines, and Their Creations:

- (a) A \_\_\_\_\_ is made up of 2 points on a line together with all points between them.

Drawing

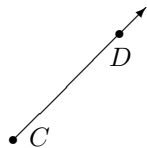


Notation

$\overline{CD}$

- (b) A \_\_\_\_\_ is made up of 1 point on a line together with all points to one side of it (on the line).

Drawing



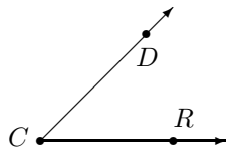
Notation

$\overrightarrow{CD}$

rarely  $\overleftarrow{DC}$

- (c) An \_\_\_\_\_ is the union of 2 rays having a common endpoint.

Drawing



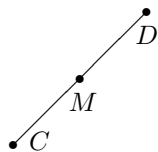
Notation

$\angle DCR$  or  $\angle RCD$

handwritten:

- (d) A \_\_\_\_\_ is a point that divides a line segment into two congruent halves.

Drawing

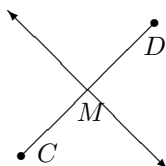


Notation

congruence markings required

- (e) A \_\_\_\_\_ is a line perpendicular to a line segment that divides the segment into 2 congruent halves.

Drawing



Notation

congruence markings required

$90^\circ$  marking required

### 3. Relationships of Lines and Points:

(a) \_\_\_\_\_ are points that lie on the same line.

Drawing

(b) \_\_\_\_\_ are points that lie in the same plane.

Drawing

(c) \_\_\_\_\_ are lines that intersect at right angles.

Drawing

(d) \_\_\_\_\_ are three or more lines that intersect at exactly the same point.

Drawing

(e) \_\_\_\_\_ are lines in the same plane that do not intersect.

Drawing

(f) \_\_\_\_\_ are lines in different planes that do not intersect.

Drawing

4. **Parts of Angles:**

- (a) The \_\_\_\_\_ is the shared endpoint of the two rays forming an angle.

Drawing

- (b) The \_\_\_\_\_ are the two rays that form the angle.

Drawing

- (c) An \_\_\_\_\_ is a ray that divides an angle into two congruent halves.

Drawing

5. Pairs of Angles:

(a) \_\_\_\_\_ are (two) angles whose measurements total  $90^\circ$ .

Drawing

(b) \_\_\_\_\_ are (two) angles whose measurements total  $180^\circ$ .

Drawing

(c) \_\_\_\_\_ are (two) angles that share a side but not their interiors.

Drawing

(d) Two angles that share a side and whose other sides extend to form a line are called

\_\_\_\_\_.

Drawing

(e) \_\_\_\_\_ are “opposing” angles formed by two intersecting lines.

Drawing

6. Sizes of Angles:

(a) A \_\_\_\_\_ is an angle measuring  $0^\circ$ .

Drawing

(b) A \_\_\_\_\_ is an angle measuring more than  $0^\circ$  but less than  $90^\circ$ .

Drawing

(c) A \_\_\_\_\_ is an angle measuring exactly  $90^\circ$ .

Drawing

(d) A \_\_\_\_\_ is an angle measuring more than  $90^\circ$  but less than  $180^\circ$ .

Drawing

(e) A \_\_\_\_\_ is an angle measuring exactly  $180^\circ$ .

Drawing

(f) A \_\_\_\_\_ is an angle measuring more than  $180^\circ$  but less than  $360^\circ$ .

Drawing