8/23/19 - Warm Up Problem

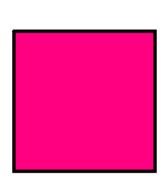
Solve each equation.

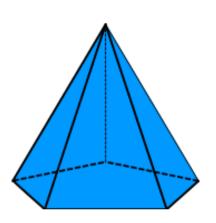
1.
$$3x + 15 = 23$$

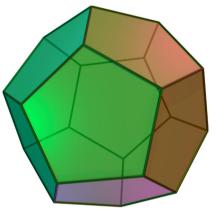
 $3x + 15 = 23$
 $3x = 18$
 $3x = 18$
 $3x = 6$

Concept 1 - Basic Geometric Figures Goals

Identify and name points, lines, planes, segments, and rays Determine if points are collinear or coplanar







Basic Geometric Shapes

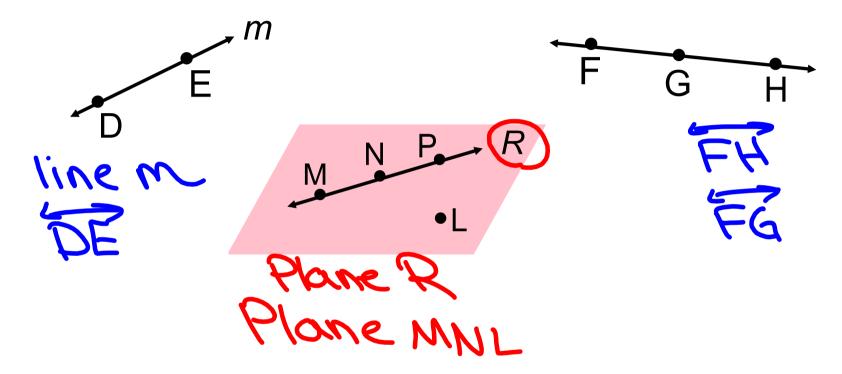
	Example	How to Name It	Description
POINT	٠.٨	Named with one capital letter	a locationhas no shape or size
LINE	G F	Named by any two points on the line with the line symbol or by one lowercase letter	 straight path extending in opposite directions w/out end has no thickness contains infinite points
PLANE	am. 5.x	Named by 3 or more points not from the same line or by a capital letter in one corner of the plane	 flat surface that extends without end has no thickness contains infinite lines

Collinear:

Coplanar:

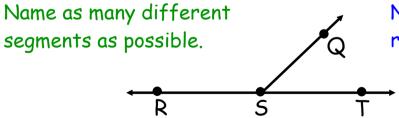
Wame that geometric figure!

Write the name of each geometric figure in three different ways.



More Basic Geometric Figures

SEGMENT	B	Named by the letters of its endpoints - must use segment symbol	A part of a line consisting of 2 endpoints and all the points in between.
RAY	XY	Named by its endpoint followed by one other point on the ray - must use ray symbol	A part of a line consisting of 1 endpoint and all the points that lie on one side.
ANGLE	NOT R	Named by 3 points. - must use angle symbol - vertex must be in the middle Also can be named with a number.	2 roys that share an endpoint



Name as many different rays as possible.

Name as many different angles as possible.

Try it on your own...

What is the name of the line not contained

line m

in plane R?



Name 3 points that are collinear.

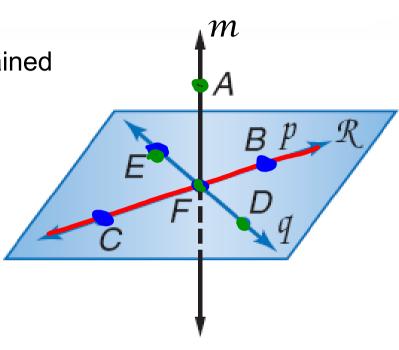


Are points C, F, E, and B coplanar?



Are points A, E, D, and F coplanar?





Assignment:

Concept 1 Worksheet (#1-13) - due Friday 8/30

POINTS, LINES, PLANES, SEGMENTS, AND RAYS

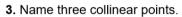
Use the figure below for Exercises 1–8. Note that \overline{RN} goes through the plane at N.

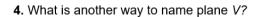
1. Name two segments shown in the figure.

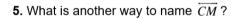


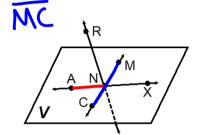












- **6.** Name two rays that have the same endpoint.
- **7.** Which point is not contained in Plane *V*?
- 8. Name an angle that has N as its vertex.
- 9. Is it possible for one line to be shorter in length than another? Explain.

The first three points listed for each question are coplanar. Determine whether the fourth point is in the same plane. Write *coplanar* or *noncoplanar* to describe the points.

- **10.** P, T, R, N
- **11**. P, O, S, N
- **12.** *T, R, N, U*
- 13. P, O, R, S

