

Math 7 - Unit 5

Day 1 - Measure & Draw Angles

Lesson Objectives:

- I can classify different types of angles.
- I can accurately draw different measures of angles.

Sir Cumference and the Great Knight of Angleland



In order to understand geometry, we must learn some basic vocabulary.

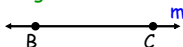
A **point** is a specific location in space with no size or shape. A point can be represented by a dot and is usually named with capital letters.

Point A



A **line** is a collection of points that extends indefinitely in two directions. A line can be named with a single lowercase letter or by two points on the line.

line m



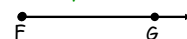
A **line segment** is part of line containing two endpoints and all the points between the endpoints. A line segment is named by its endpoints.

DE ED



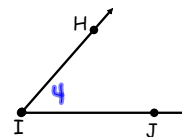
A **ray** is a portion of a line that extends from one point infinitely in one direction. A ray is named using the endpoint first and then any other point on the ray.

FG

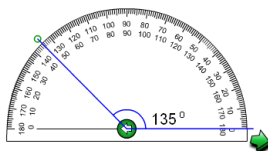


When two rays have the same endpoint, they form an **angle**. The common endpoint is called the **vertex**, and the rays are called **sides** of the angle. An angle is named using three points with the vertex as the middle letter.

<HIJ
<JIH
<I
<4

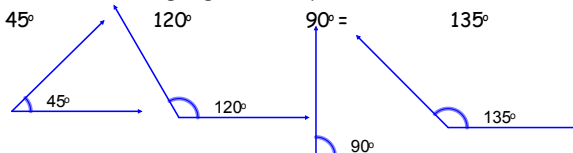


The most common unit of measure for angles is the **degree**. Use a **protractor** to measure degrees of an angle.



Click on the green open circle to measure an angle.
Click on the solid green arrow to create that angle.
The white arrow will switch the direction the angle starts.

Draw the following angles with a protractor.



Mix and match the name of each angle with the definition and picture.

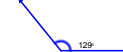
Angles having a measure of 180°

Straight Angles



Angles having a measure greater than 90° but less than 180°

Obtuse Angles



Right Angles

Angles having a measure of 90°



Angles having a measure greater than 0° but less than 90°

Acute Angles



Homework

Angle WKS

* Individual Think Time *



What to do if you get stuck...

1. Reread the problem. Did you write it down correctly?
2. Reread your notes. Is there a problem similar that we did together in class?
3. Find a problem similar in your book. Try this one to see if it helps.
4. Skip the problem until the end of Individual Think Time. Then ask an "educated" question of a neighbor or Mrs. Call.

Today we're working by...

