

DO NOW – On the back of this packet

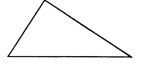
Name _____

LO: I can use a compass to locate points that are specific distances from other points to construct a triangle.

(1) **Locating particular points, part 1**

ruler

(a) A triangle has _____ sides. To draw _____ sides, we need to locate _____ specific points that we can connect to make the sides. In the space below, mark and label points A, B, and C, and connect them to make a triangle.

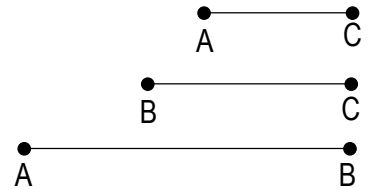


(b) Compare your triangle to the triangles made by others in your group. Are the triangles all exactly the same? _____ How did you check? _____

(2) **Locating particular points, part 2**

ruler

(a) **Draw** a triangle with the lengths at right.
Use a ruler to measure and draw each side of triangle ABC precisely the length of the segments at right.

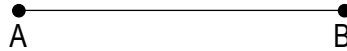
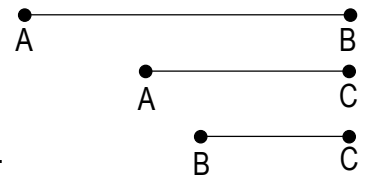


(b) Check to make sure each side is exactly the length it is supposed to be.
 (c) Did all of the sides line up right the first time? _____ Did you have to erase or redraw any sides? _____
 (d) Compare your triangle to the triangles made by others in your group. Are the triangles all exactly the same? _____ How do you know: _____

(3)
compass

Locating particular points, part 3

- (a) **Construct** triangle ABC using the 3 distances:
Points A and B have been located and connected for you.
You must locate C. DO NOT measure with numbers, just slide your compass.



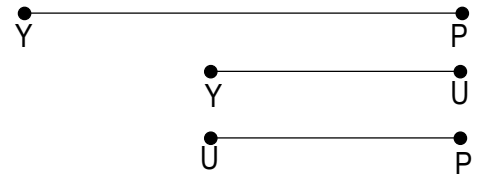
Think:

- (b) Predict: In what region will C be located? LIGHTLY shade the region you predict with pencil.
- How can I show ALL of the points that are the distance AC from point A in that region?
(highlight them pink)
 - How can I show ALL of the points that are the distance BC from point B in that region?
(highlight them yellow)
- (c) Based on your work in part (b), where must point C be located? Describe below and mark point C on your diagram.

(4)
compass

Construct a triangle by locating points

- Construct triangle YUP by using the 3 distances:
Start by drawing a line segment and making it the length of YP.
Then, use the process from #3 above to complete the triangle.



(5) **The power of the compass**

The compass makes it possible for us to see _____ of the points that are a specific distance from another point.

To find a point that is both a desired distance from point A and a desired distance from point B, we construct _____ and mark the point where they _____.

(6) **Exit Ticket**

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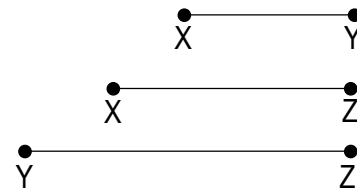
(6) **HOMEWORK:**

notes, pink
& green
sheets

(1) Study for the quiz tomorrow by:

- (1) Rereading the classroom expectations and procedures
- (2) Drawing lines, line segments, rays, and planes and using your notes to name each one with proper notation
- (3) Using a compass to construct all of the points that are the same distance from a point
- (4) Using a compass to construct a triangle from given lengths.
- (5) Reviewing how to keep your brain healthy

(2) Construct triangle XYZ using the lengths at right:



Practice using a compass in the space below. Make circles until it is easy to use your compass.

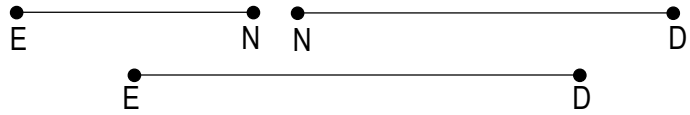
Exit Ticket Name _____ Date _____ Per _____

8.1L

Exit Ticket

(1) The LO (Learning Outcomes) are written below your name on the front of this packet. Demonstrate your achievement of these outcomes by doing the following:

Construct Triangle END with the lengths at right.



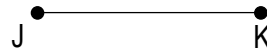
DO NOW Name _____ Date _____ Per _____

8.1L

(1) Compare and contrast the qualities of lines, line segments, and rays.

(Describe how they are alike and how they are different.)

Show all of the points that are the same distance from L as J is from K



L •

(3) **How Many Triangles?**

