

DO NOW – On the back of this packet

Name _____

LO: I can use a compass to copy an angle and explain how the construction makes a copy.

(1) **Copying an angle with a compass and straightedge:**

angle
diagrams

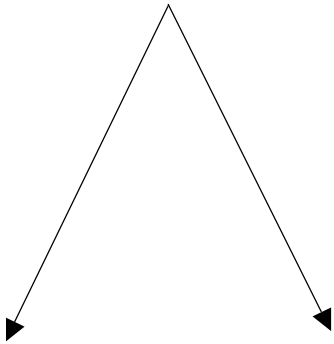
- (a) Obtain "C5 Copy an Angle", a diagrams page, scissors, and tape or glue
- (b) Cut out the column of diagrams and match them with the step descriptions on the construction notes page
- (c) Try to complete the "What this does" section of the notes as well as you can. We will check this together.
- (d) Use the steps to complete problem (2) "Copying Angles"

(2) **Constructing a copy of an angle:**

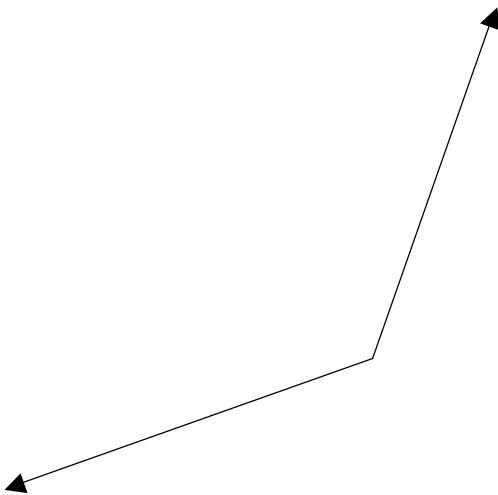
compass
highlighters

Use the steps from your work on #3 and #4 to copy each angle below.

COPY



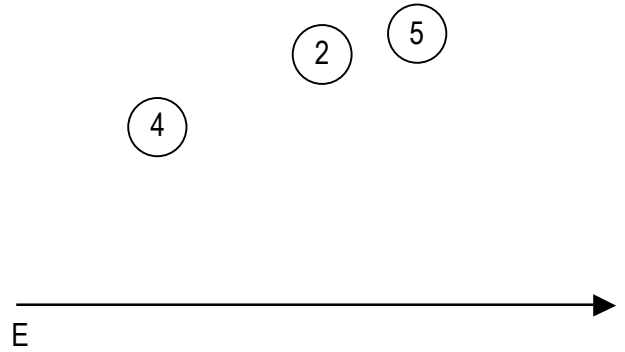
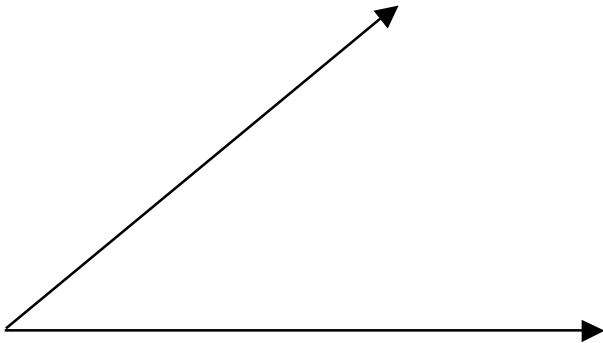
COPY



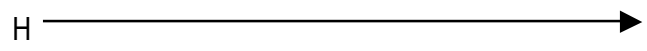
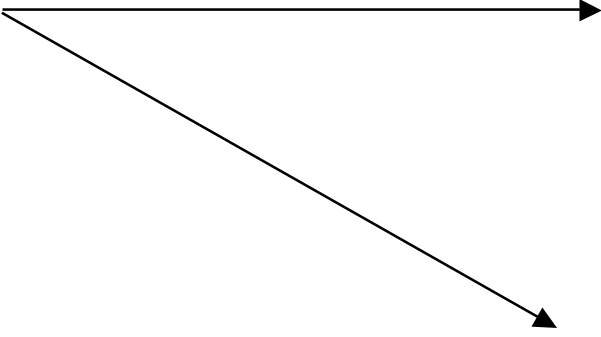
Practice: Copying an angle puzzle.

Copy each angle to answer the riddle. The ray you construct will pass through a number. The number you hit tells you the space where you should write the letter of the angle.

Where do all the cool people go? _____



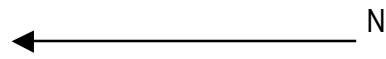
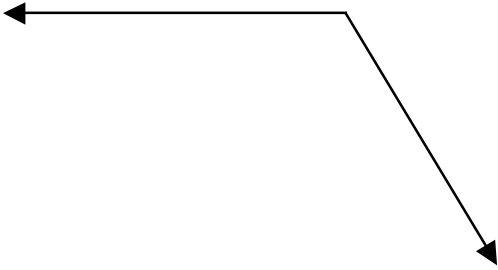
3
1.7



6

1

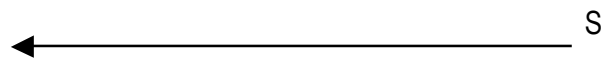
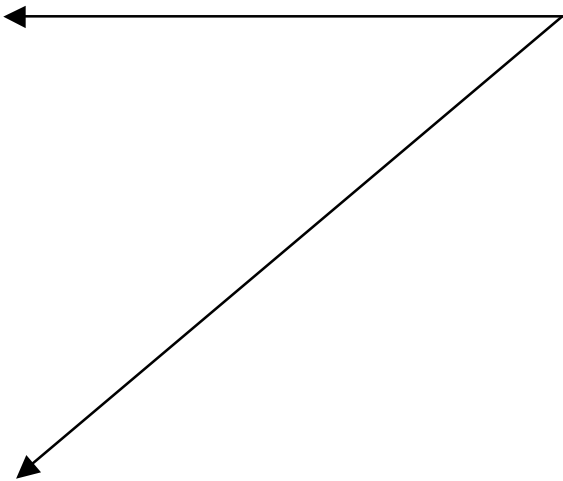
5



5

6

3



6

5

3

(3) **Exit Ticket**

ON THE LAST PAGE

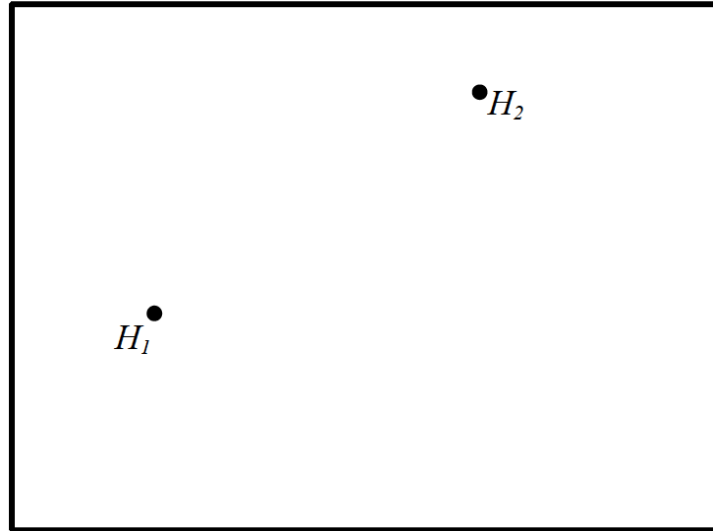
 (4) **Homework**

compass

 (1) **Constructing Perpendicular Bisectors continued:**

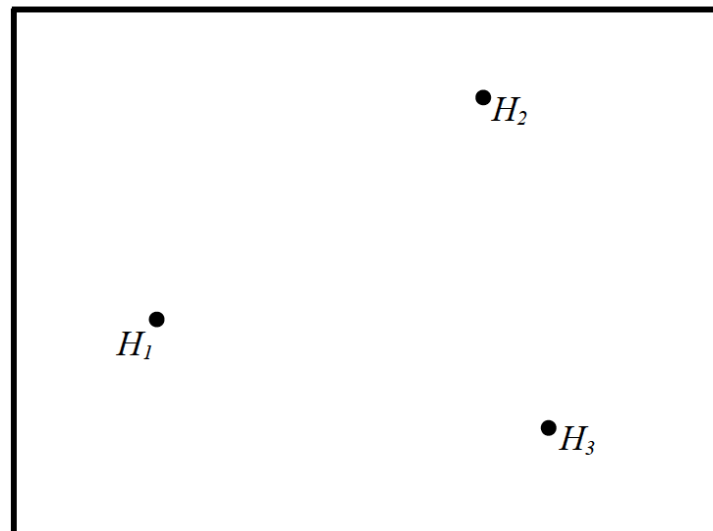
Two homes are built on a plot of land. Both homeowners have dogs, and are interested in putting up as much fencing as possible between their homes on the land, but in a way that keeps the fence equidistant from each home. Use your construction tools to determine where the fence should go on the plot of land.

HINT: Should the fence CONNECT the houses or SEPARATE the houses?



How will the fencing alter with the addition of a third home?

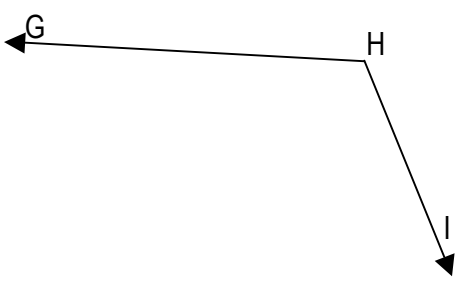
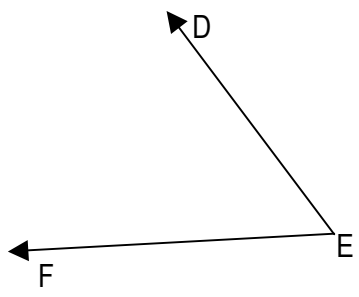
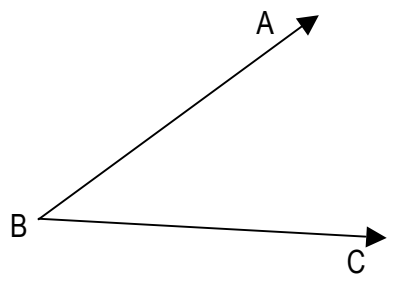
CONSTRUCT the fences to SHOW how the fencing will change. (You may want to use more than one color.)



(5)
compass

Homework

(2) Copy the three angles below with a compass and straightedge. Then go back and bisect the original angle.



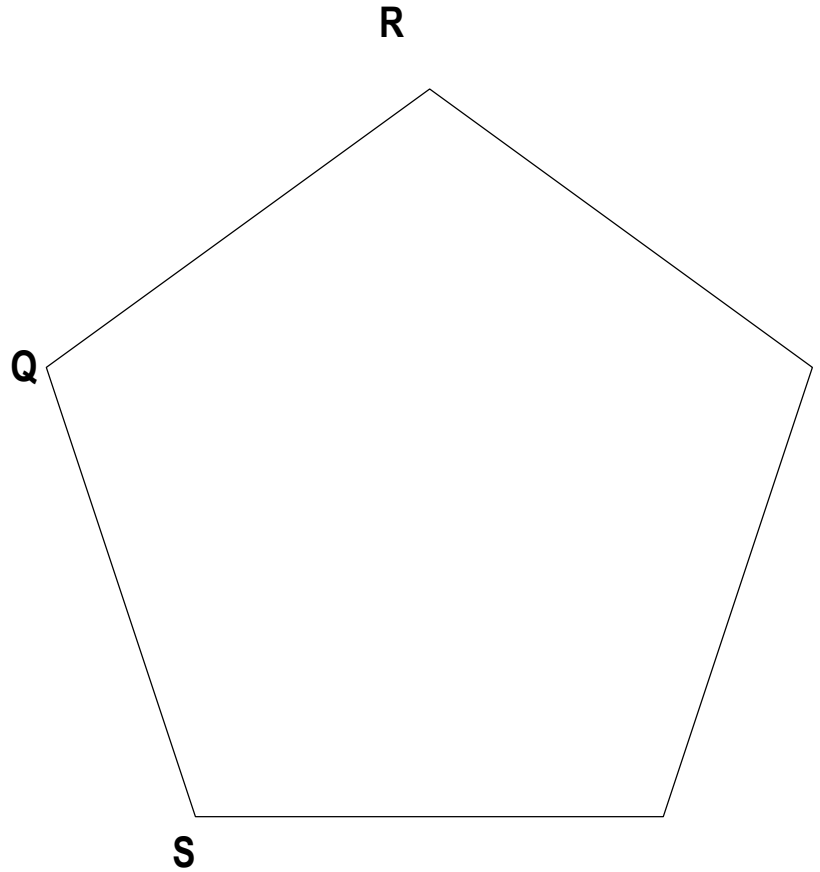
Exit Ticket Name _____ Date _____ Per _____

1.7R

(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:

Use a compass and straightedge to copy angle RQS: (Stay focused and don't worry if you don't need parts of the figure.)

Show all construction marks.



DO NOW Name _____ Date _____ Per _____

1.7R

(1) Use a straightedge to carefully draw $\angle RED$, then use a compass to construct the bisector of $\angle RED$

(2) Describe why the cartoon below is supposed to make people smile. REALLY think about it.

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