



# Skills Practice

## Stage 31: Geometry

### Task 1:

Make a coordinate graph like this one in your journal:

Make a line that runs through  $(0,0)$ ,  $(1,1)$ ,  $(2,2)$ , and  $(3,3)$ , and stops at  $(4,4)$ .  
Start at  $(4,4)$  and make a line that runs through  $(5,3)$ ,  $(6,2)$ ,  $(7,1)$  to  $(8,0)$ .

Describe what you made. Using coordinate points, how can you turn the shape into a letter?

### Task 2:

Make a coordinate grid in your journal. (can use same grid from task 1):

Draw a line segment from  $(2,2)$  to  $(9,2)$  Then draw a line segment from  $(0,5)$  to  $(6,5)$ .

What can you say about these two line segments?

Make a line segment that is perpendicular to these two line segments.  
What are the coordinates of your perpendicular line?





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#### Task 3:

Lulu's experiment is to freeze 1 liter of water in a measuring cup so she can monitor its melt rate.

Make a coordinate graph and label it with values that Lulu could use to track the rate of ice melt.

The X-axis is time, in 5-minute intervals.

The Y-axis is the volume of defrosting water, in milliliters.

Predict and describe what the line might look like over time, as the ice melts.

