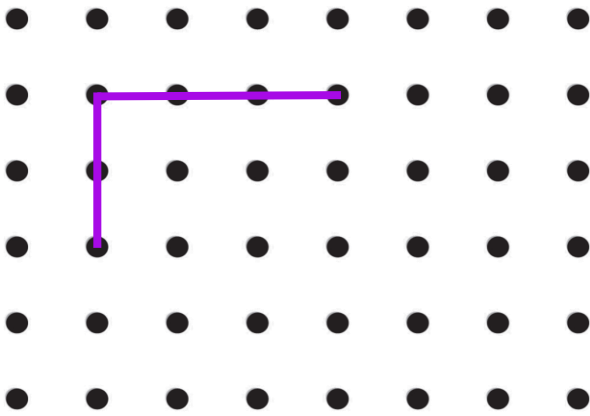


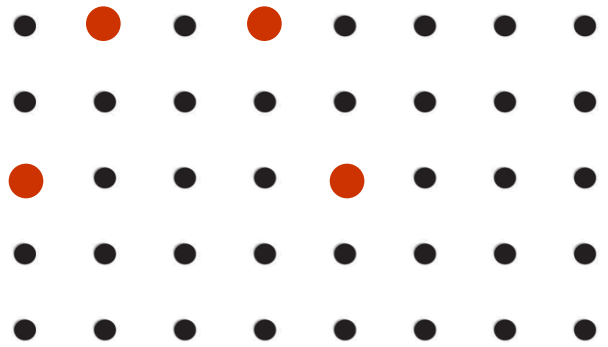
What is Area?

1. Betsy is drawing a rectangle. Draw 2 more lines to complete the shape.



VF

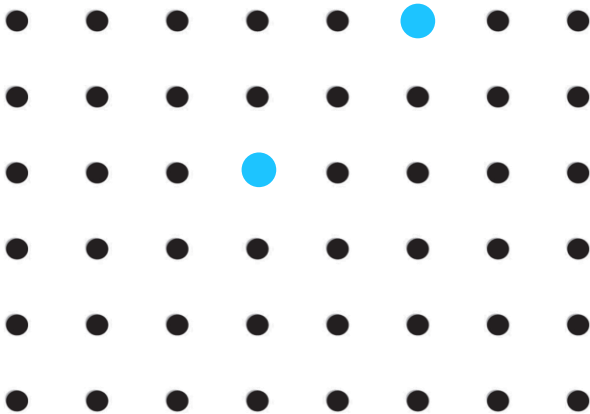
4. Nigel thinks if he adds 1 more vertex, he will be able to draw a hexagon.



Is Nigel correct? Explain your reasoning.

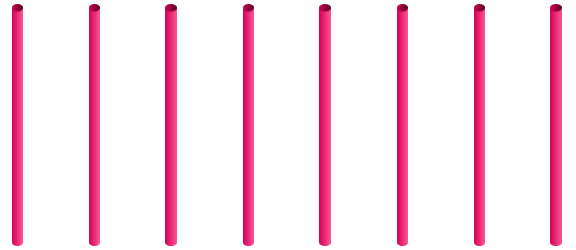
R

2. Add 2 more vertices below and create a quadrilateral that does not have 2 pairs of equal or parallel sides.



VF

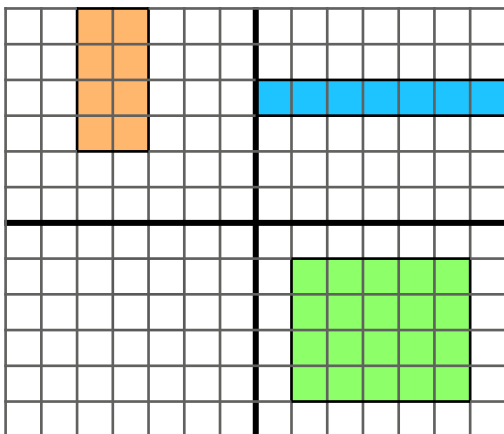
5. Claire thinks that if she adds three more identical straws to the set below, she can create two separate regular hexagons.



Is she correct? Prove it.

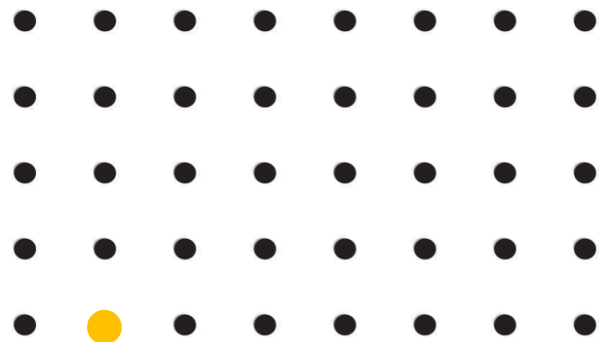
R

3. In the empty quadrant, draw a shape which is made up of only 2 rows and 2 columns.



VF

6. Horatio is drawing a triangle starting at the dot. The sides of his triangle are all different lengths.

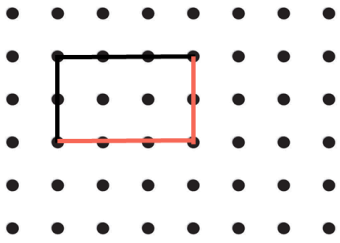


What could his finished shape look like? Find three possibilities.

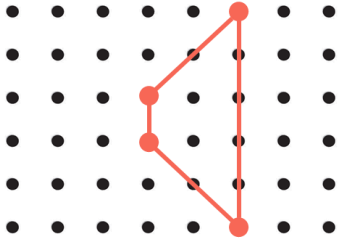
PS

What is Area?

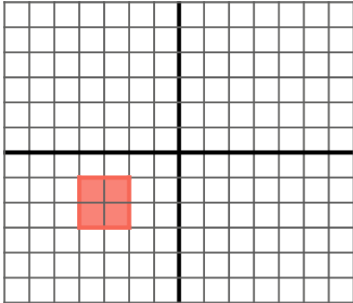
1. Betsy's rectangle is shown below:



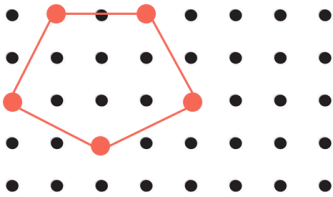
2. A trapezium should be created when all 4 vertices are connected. The vertices can vary but there should be one or no pairs of sides that are equal in length or parallel.



3. Various answers, for example:



4. Nigel is incorrect. If Nigel adds 1 more vertex, he will be able to create a pentagon as his shape will have 5 sides. A hexagon has 6 sides, so he will need to add 2 vertices.



5. Claire is incorrect. $8 + 3 \text{ straws} = 11 \text{ straws}$ and hexagons have 6 sides. 2 hexagons would have 12 sides (6×2), so there would not be enough straws.

6. Various answers, for example:

