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| **Challenge 1**  Construct a 45° angle  *Hint: Make a 90° angle first* | **Challenge 2**  Construct a 30° angle  *Hint: Construct an equilateral triangle first* |
| **Challenge 3: A piece of A4 paper**  Shade the complete set of points that are within 5cm of the centre of the paper  Show the complete set of points that are exactly 7cm from one of the corners  Choose two (adjacent) sides. Show the complete set of points that is **equidistant** from these sides. | **Challenge 4**  Show the complete set of points that is **equidistant** from points A and B  A🗶  🗶B |
| **Challenge 5**  Show the complete set of points that is within 4 cm of this line | **Challenge 6: Napoleon’s Theorem**  Construct a triangle with sides 5cm, 6cm and 7cm  Use each side as the base of an equilateral triangle. Construct these three equilateral triangles  Join the centre of your three equilateral triangles. What shape have you made? |

Provide as a set of cards?