

# Properties of shape Journaling

## Maths Mastery

Draw 2D Shapes Using Given Dimensions and Angles

### Squares

On plain paper draw a square with side 6cm.  
Draw another square with side 8cm, which has the same centre as the first.  
Can you continue the pattern?

Look through the Mastery PowerPoint file.

Pick three of the challenges and do them as a journaling exercise in your work books. (You all know how to do this) Use coloured pens and have fun!

Once you've done this, upload an image to this word file and submit.

I will add Dojo Points for people who do this well.

**Mr. A's Class - Student Heights**

Minimum: 47    **Range: 17**  
 Quotile 1: 55    **Interquartile Range: 12**  
 Quotile 2: 58.5    **Median: 58**  
 Quotile 3: 60    **Mode: 58**  
 Maximum: 64

**Mr. B's Class - Student Heights**

Minimum: 46    **Range: 19**  
 Quotile 1: 48    **Interquartile Range: 12**  
 Quotile 2: 57.5    **Median: 54**  
 Quotile 3: 57    **Mode: 48**  
 Maximum: 70

	Class A	Class B	Notes/Comments
Number of observations	32	30	Different set data - must be reliable
How was the observation made?	Tape measure	Same	Seems accurate & reliable
Unit of measurement	inches	inches	important!
Is the data ordered or categorized?	ordered	ordered	Some important!
What are the modes of central tendency?	Mode: 58	Mode: 48	Opposite
What are the medians of central tendency?	Median: 58.5	Median: 54	Similar
What are the ranges of central tendency?	Range: 17	Range: 24	Similar
Are there outliers?	No	No	Different! Impact range of Class A
Are there gaps?	Yes	Yes	Some

Journaling example