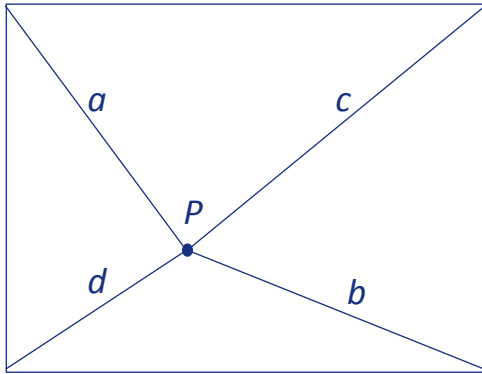


Poppy meets Pythagoras

Poppy is trying to find a method that might enable her to find the **position** of her helicopter inside a rectangular region.



She first experimented by drawing a 10cm by 13 cm rectangle and measured a, b, c and d for various points P inside the rectangle.

She started the table below.

P	a	b	c	d	a^2	b^2	c^2	d^2
1	9.43	8.25	11.31	5.39	89	68	128	29
2	7.81	8.60	8.60	7.81	61	74	74	61
3								
4								
5								
6								
7								

Complete the table and try to find a relationship between a, b, c and d. Can you justify this relationship?