H.Geometry – Chapter 2 – Definition Sheet

Section 2.3

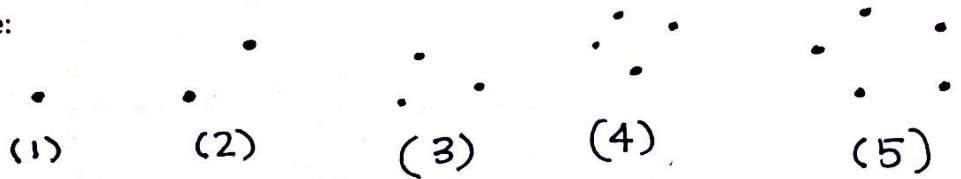|	
Mathematical Model	–using mathematics to simulate situations or problems _EX:_ graphs, pictures, equations...
Investigation (pg.108) Use mathematical Modeling to show this.	Each of the 30 people at a party shook hands with everyone else. How many handshakes were there altogether? Picture:

(1)   (2)   (3)   (4)   (5)

People	1	2	3	4	5	n	30
Handshakes	0	1	3	6	10	$\frac{n(n+1)}{2}$	435

double: 0   2   6   12   20

factors: $\frac{0}{1}$ $\frac{1}{2}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{4}{5}$ $\frac{n}{n+1}$