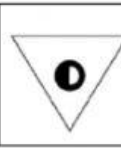
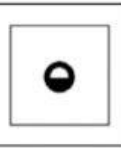
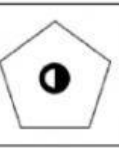
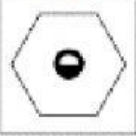
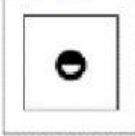
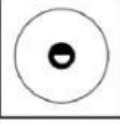
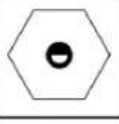
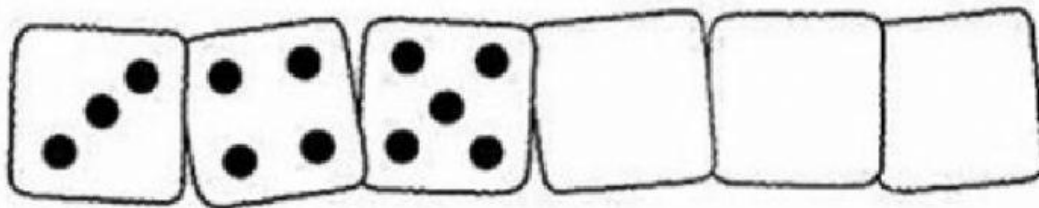


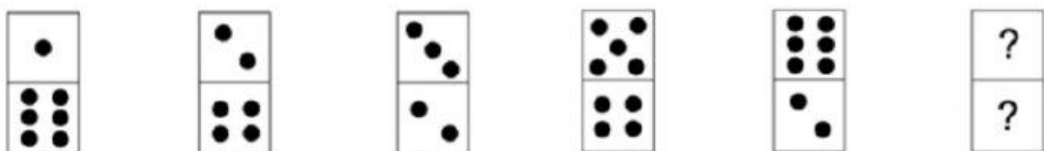
HL PATTERNS PRACTICE

Choose the correct object to continue the pattern

Explain with words how the patterns are changing and how it will be completed





Complete the numeric patterns and find the general rule (type the fractions as whole space numerator / denominator space). Follow the example

n	1	2	3	4	5	6	7	8
p	$2\frac{1}{5}$	$2\frac{4}{5}$	$3\frac{2}{5}$	5	5 3/5	6 1/5	6 4/5	7 1/5

GR: $p = \frac{3}{5}n + 1\frac{3}{5}$

x	1	2	3	4	5	6	7	8
y	7	9	12	16	21	27	34	42

GR: $y = 7 + \frac{(2+x)(x-1)}{2}$

Test: $y = 7 + \frac{(2+2)(2-1)}{2} = 7 + \frac{4 \times 1}{2} = 7 + 2 = 9$

Verify: $y = 7 + \frac{(2+5)(5-1)}{2} = 7 + \frac{7 \times 4}{2} = 7 + 14 = 21$

x	1	2	3	4	5	6	7	8
y	1	4	8	13				

GR: $\underline{\hspace{2cm}} y = \quad + \frac{(\quad)(\quad)}{\quad} \underline{\hspace{2cm}}$

Test: $\underline{\hspace{2cm}} y = \quad + \frac{(\quad)(\quad)}{\quad} = \quad + \underline{\hspace{1cm}} = \quad + \quad = \quad \underline{\hspace{2cm}}$

Verify: $\underline{\hspace{2cm}} y = \quad + \frac{(\quad)(\quad)}{\quad} = \quad + \underline{\hspace{1cm}} = \quad + \quad = \quad \underline{\hspace{2cm}}$

n	1	2	3	4	5	6	7	8
p	$1\frac{2}{3}$	3	$4\frac{1}{3}$	$5\frac{2}{3}$				

GR: $\underline{\hspace{4cm}}$

a	1	2	3	4	5
b	-5.3	-3.9	-2.5		

GR: $\underline{\hspace{4cm}}$

Test: $\underline{\hspace{4cm}}$

Verify: $\underline{\hspace{4cm}}$