

# Hard Level up Patterns

Alternating, Complex Repeat, Double Repeat, Pattern Growing, Mirror, Sequence, Stutter, Triple Repeat

96 Puzzles

Difficulty: Hard



## Developing Mathematical Thinking Through Patterns

Pattern recognition is a foundational skill for mathematical reasoning. By identifying sequences, predicting what comes next, and understanding repetition, children develop the logical thinking and problem-solving skills essential for algebra, geometry, and everyday reasoning.

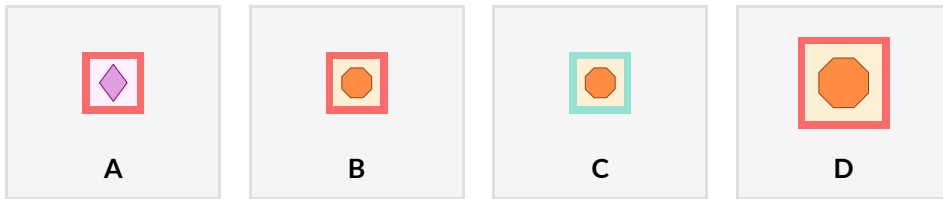
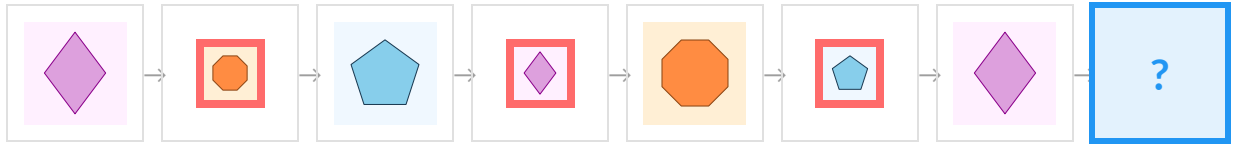
<sup>1</sup> Aligned with early mathematics curriculum focusing on patterns and algebraic thinking.

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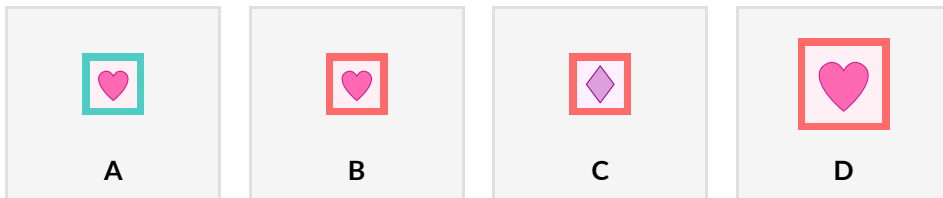
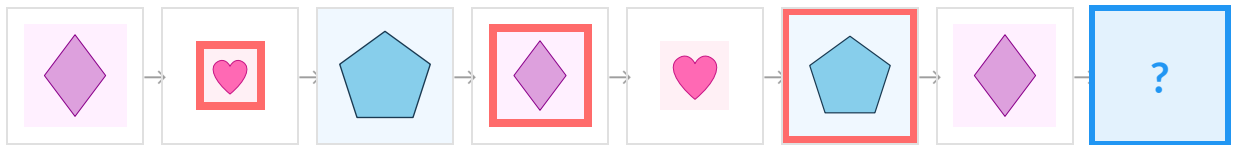
Difficulty: Hard

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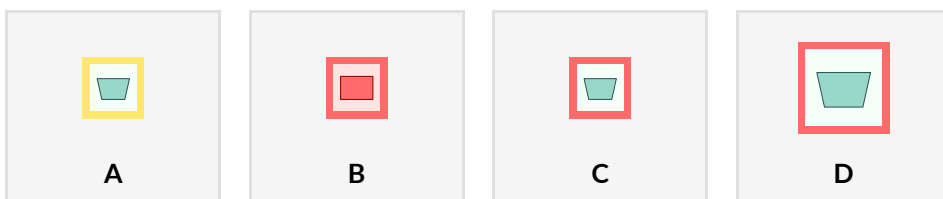
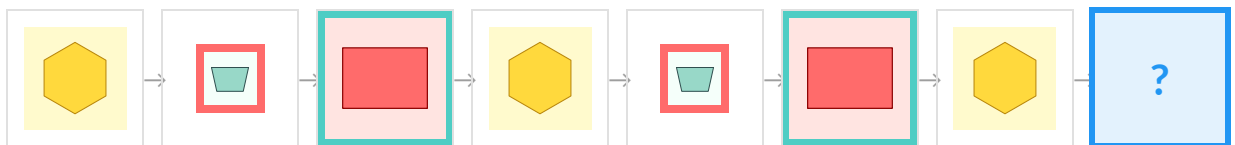
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2.



3.

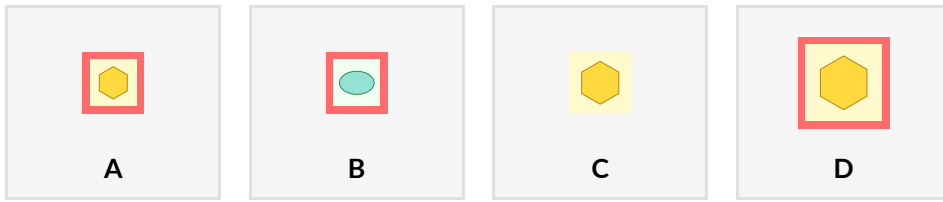
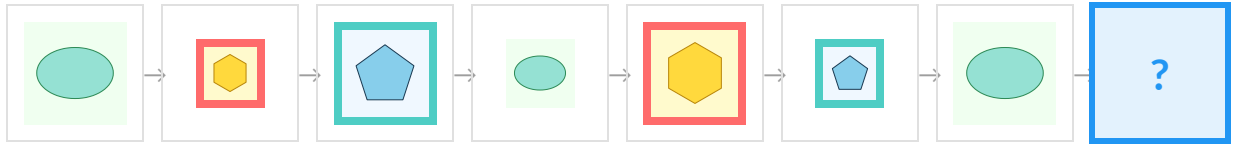


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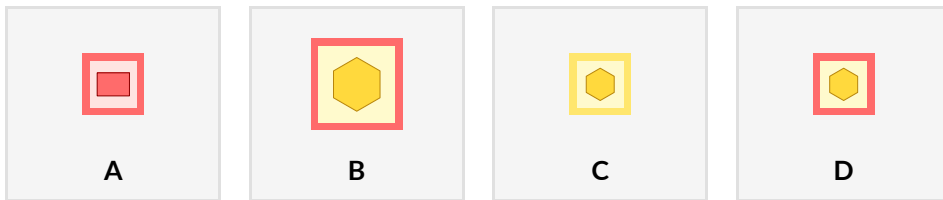
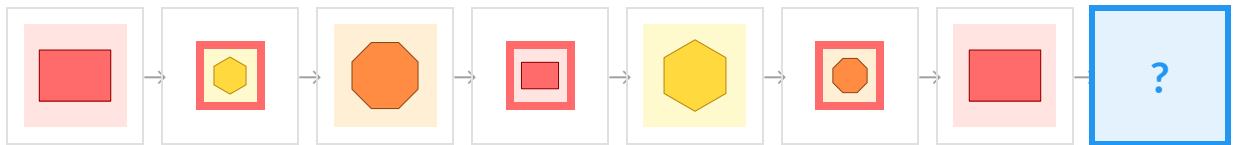
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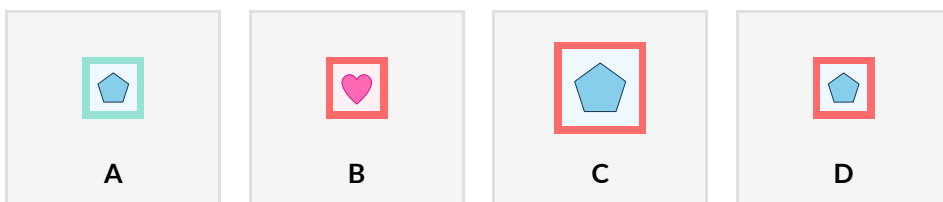
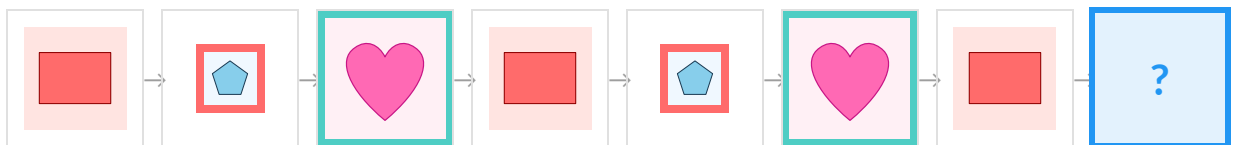
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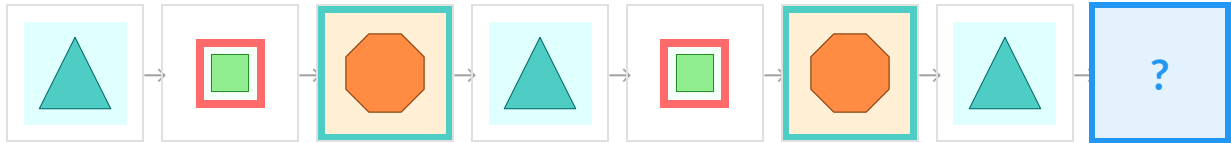


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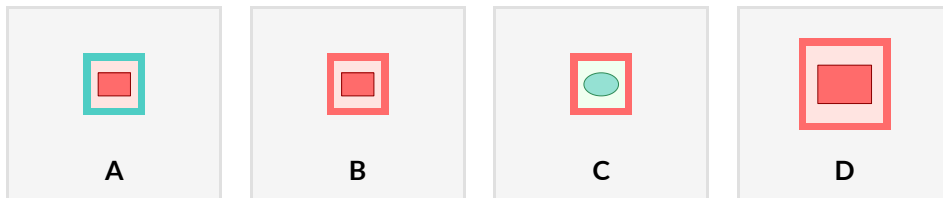
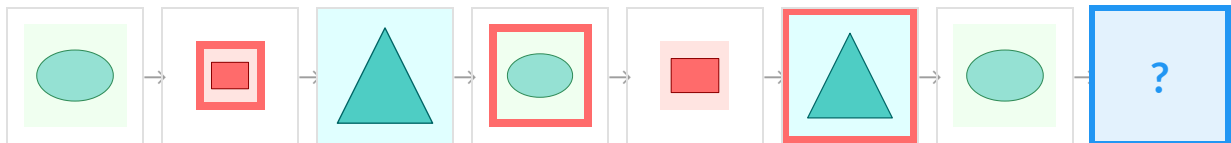
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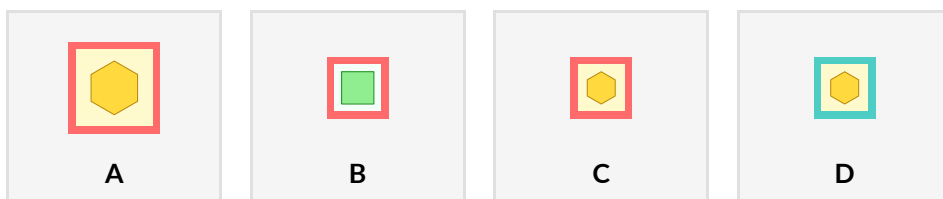
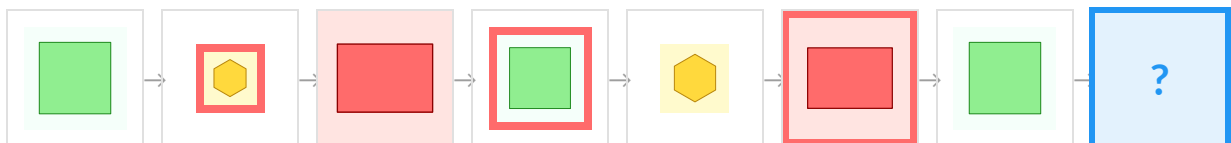
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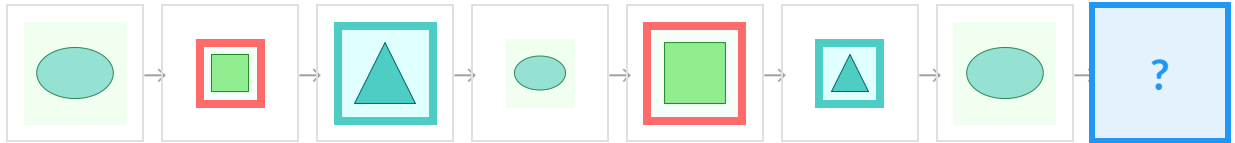


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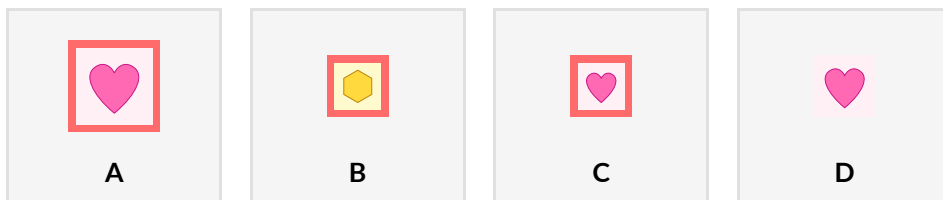
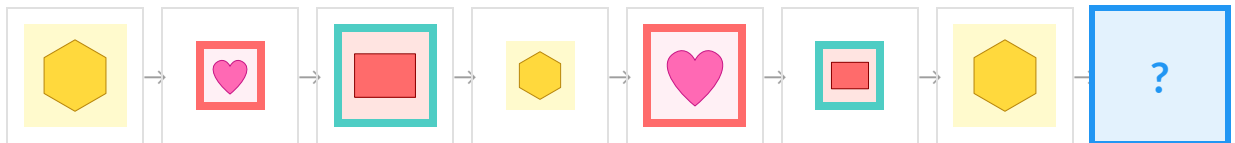
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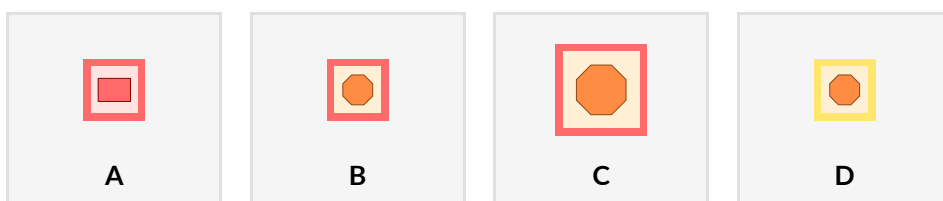
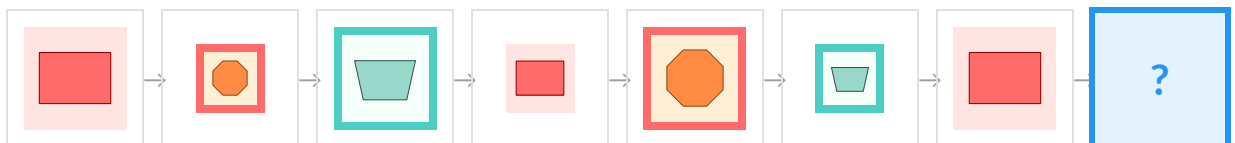
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11.



12.

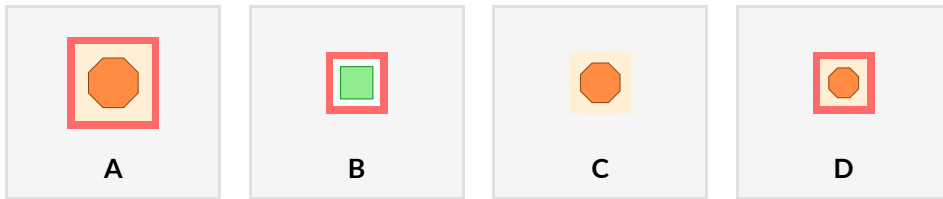
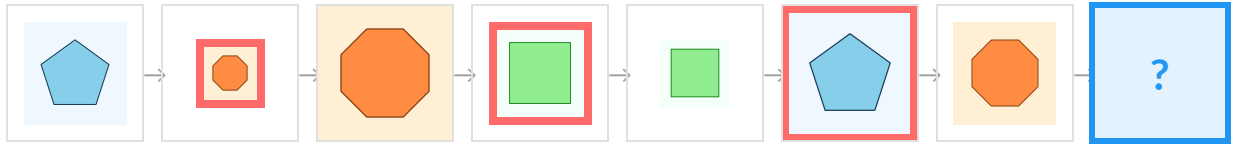


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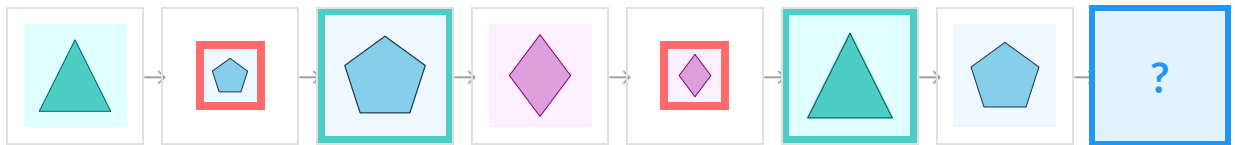
Difficulty: Hard

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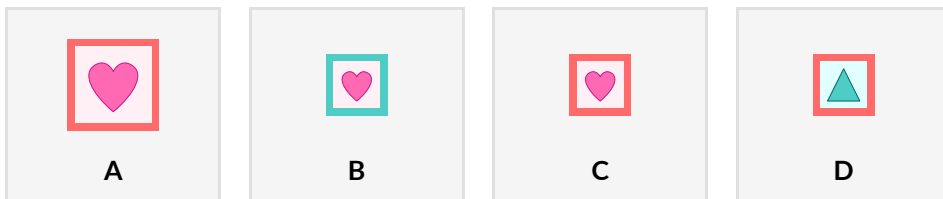
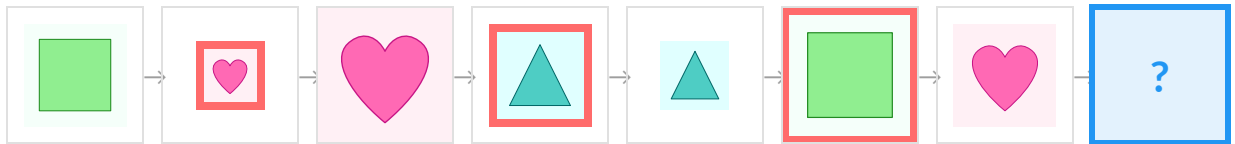
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14.



15.

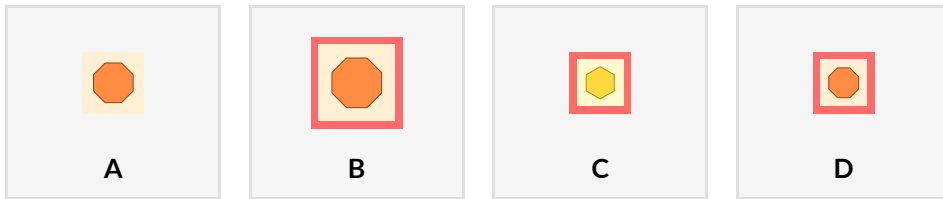
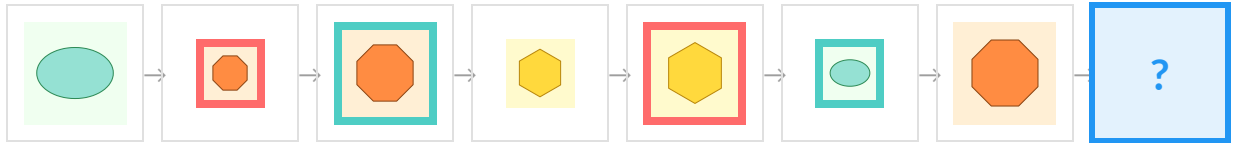


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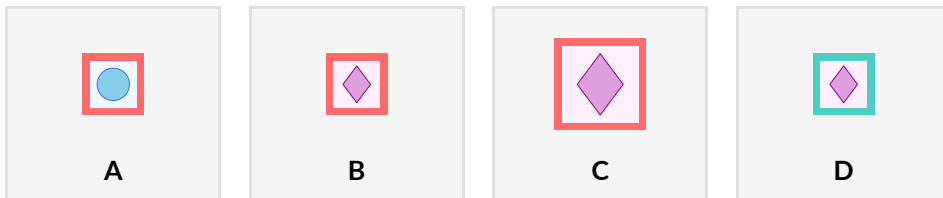
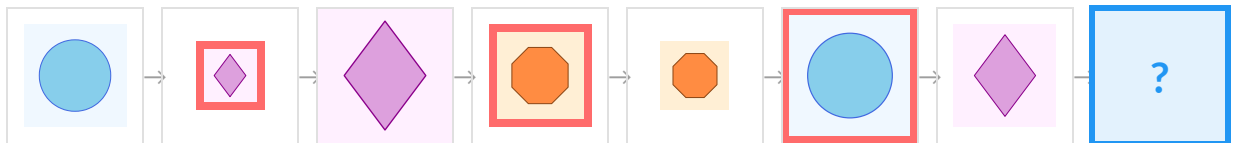
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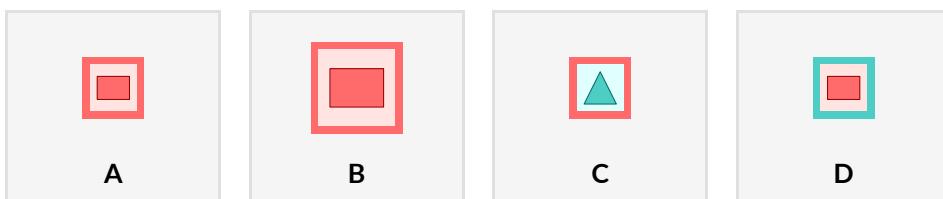
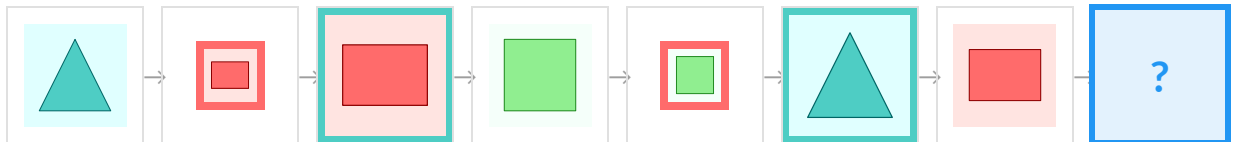
16.



17.



18.

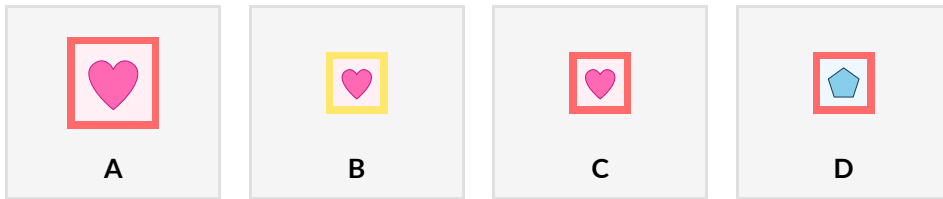
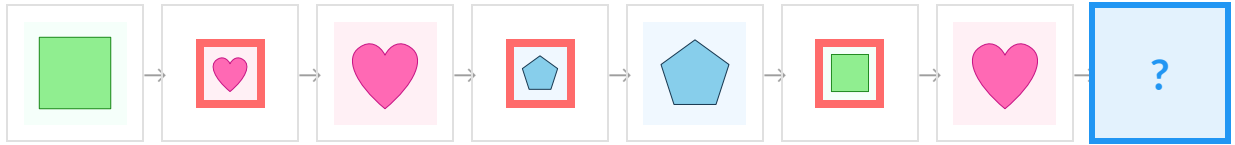


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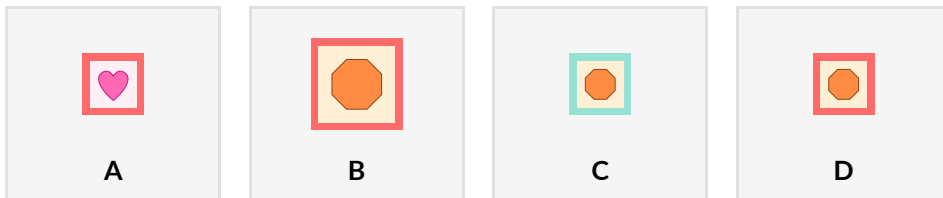
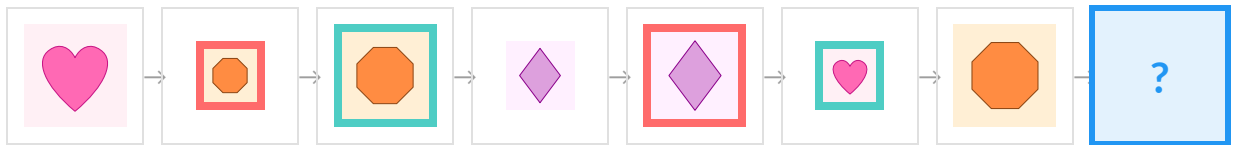
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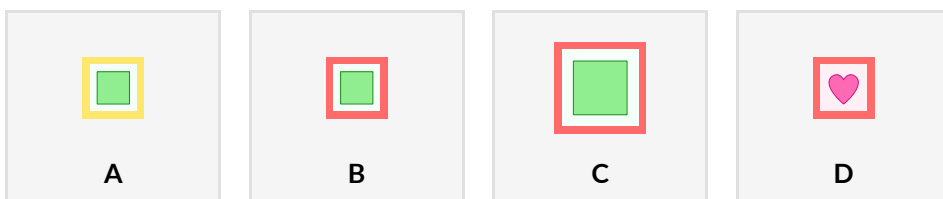
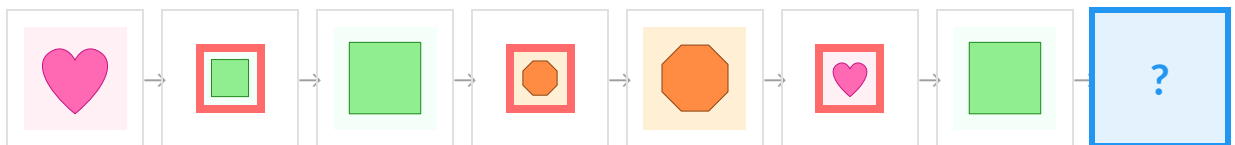
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20.



21.

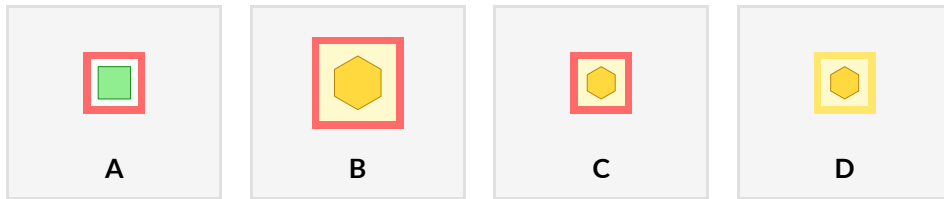
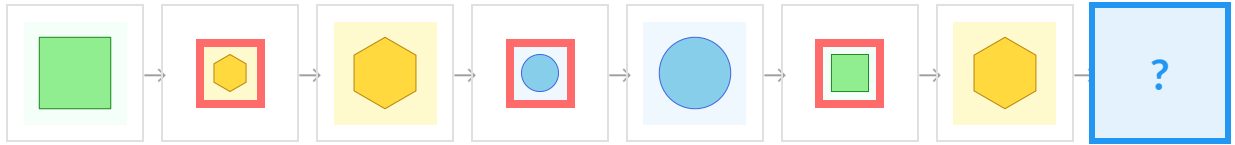


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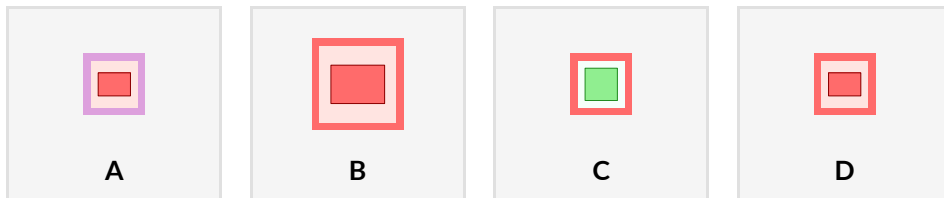
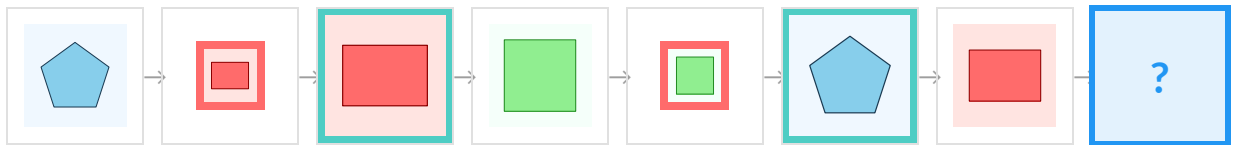
Difficulty: Hard

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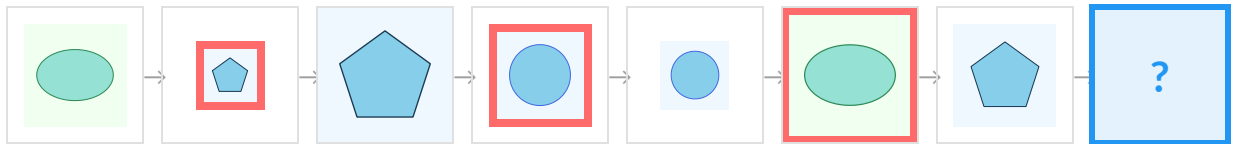
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23.



24.

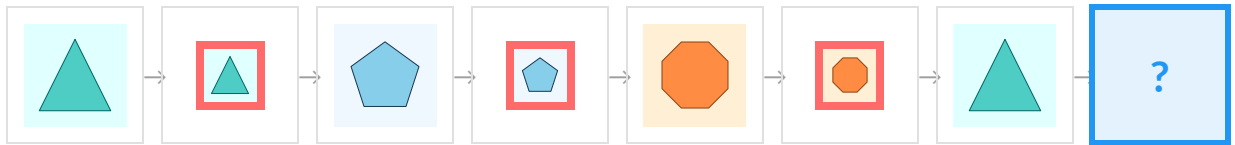


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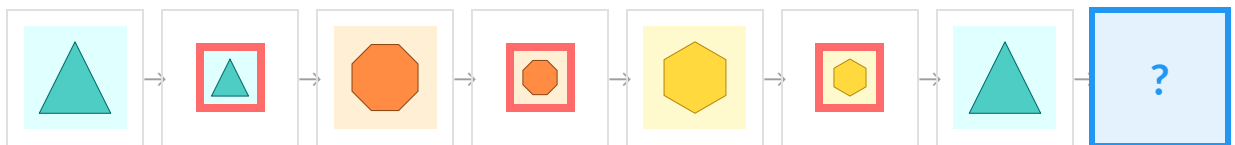
25.



Options for question 25:

- A: Blue pentagon on light blue background with a red square border.
- B: Green triangle on light blue background with a red square border.
- C: Green triangle on light blue background with a red square border.
- D: Green triangle on light blue background with a yellow square border.

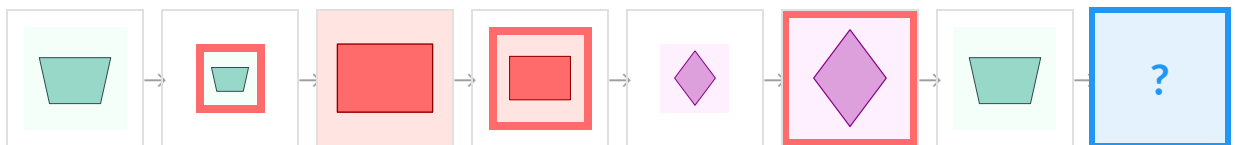
26.



Options for question 26:

- A: Green triangle on light blue background with a red square border.
- B: Green triangle on light blue background with a yellow square border.
- C: Orange octagon on light orange background with a red square border.
- D: Green triangle on light blue background with a red square border.

27.



Options for question 27:

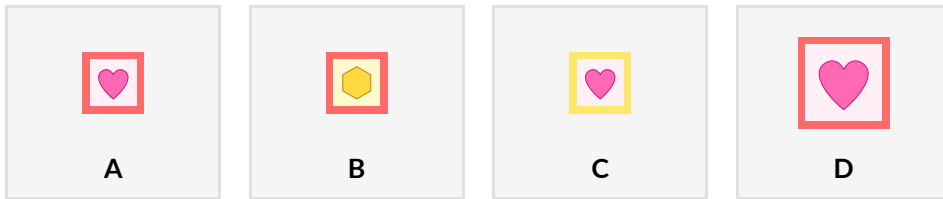
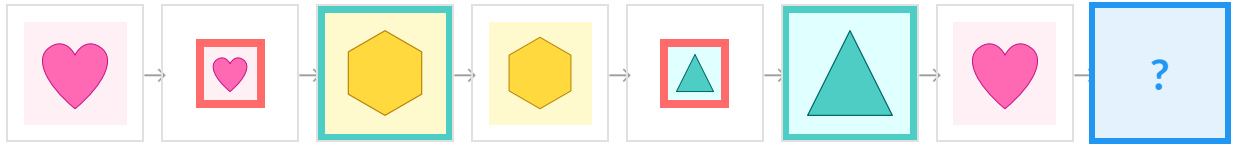
- A: Green trapezoid on light green background with a red square border.
- B: Green trapezoid on light green background with a red square border.
- C: Green trapezoid on light green background with a cyan square border.
- D: Red square on light red background with a red square border.

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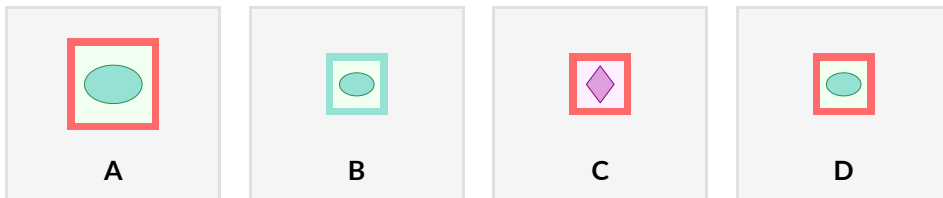
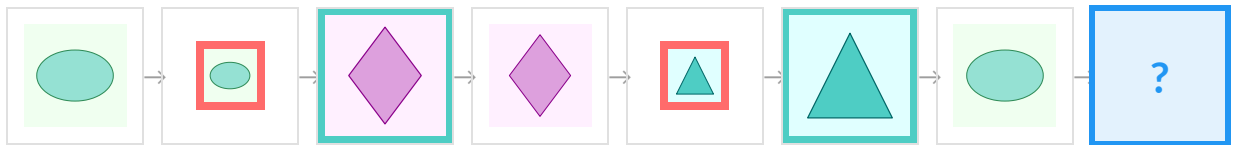
Difficulty: Hard

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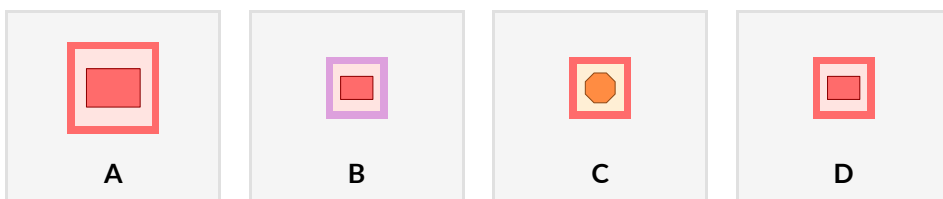
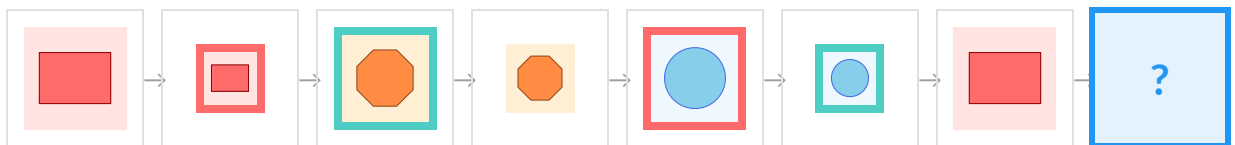
28.



29.



30.

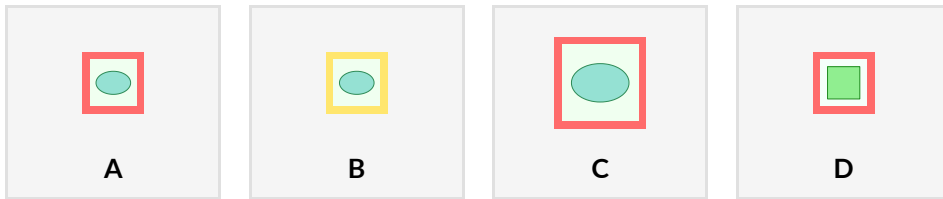
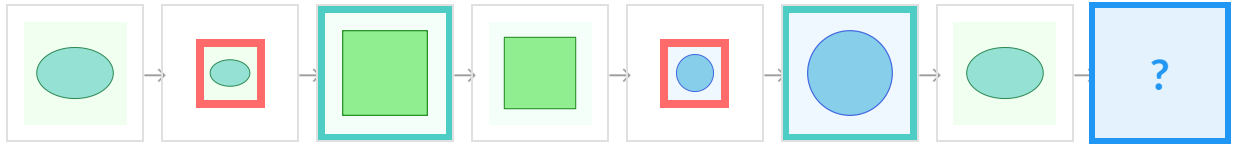


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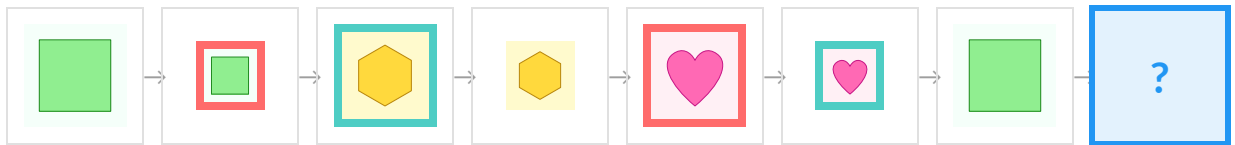
Difficulty: Hard

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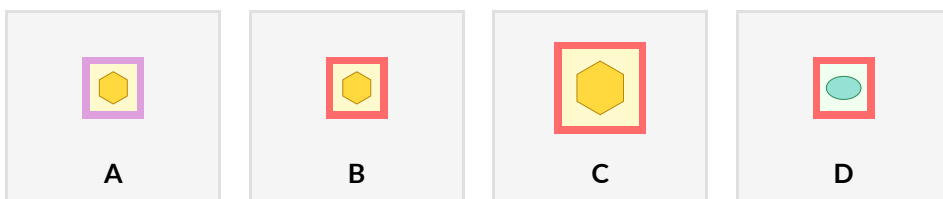
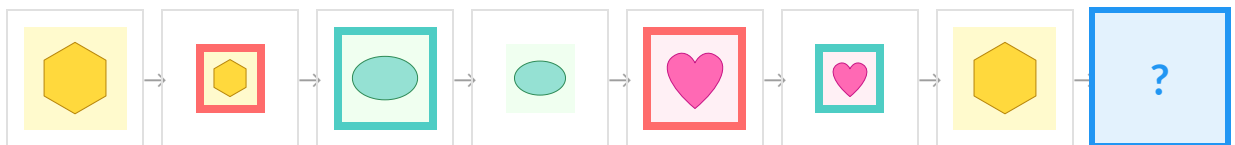
31.



32.



33.

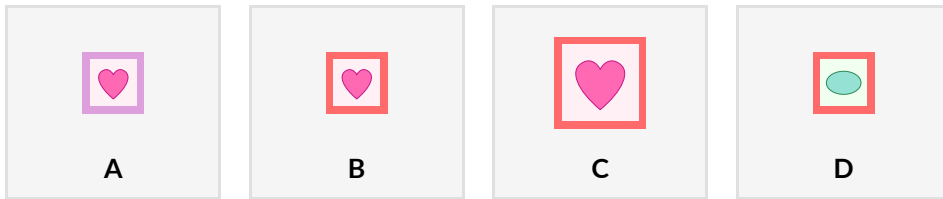
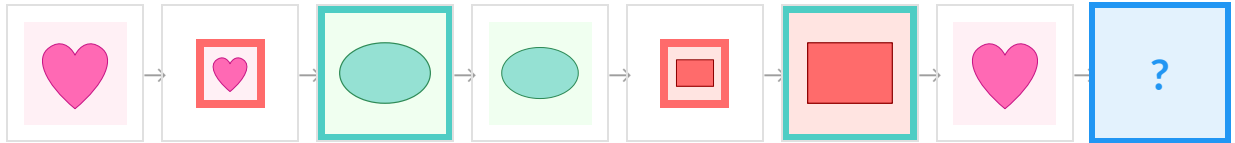


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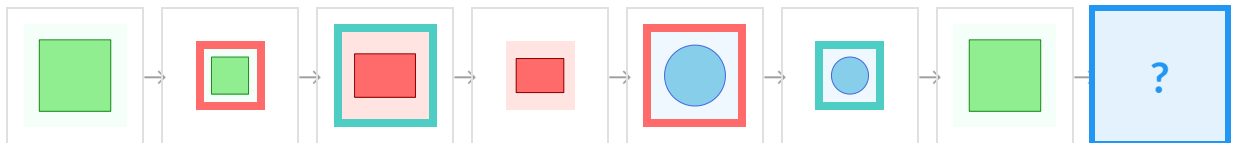
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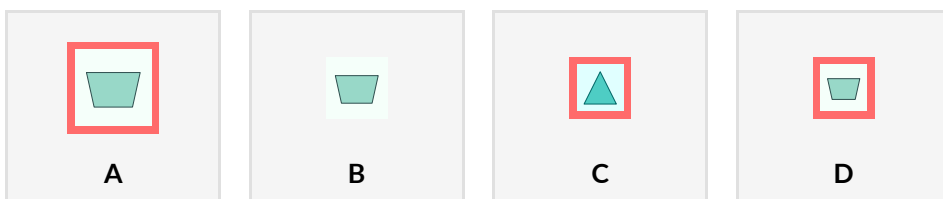
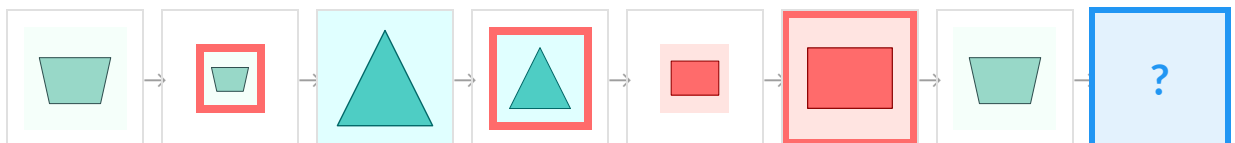
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35.



36.

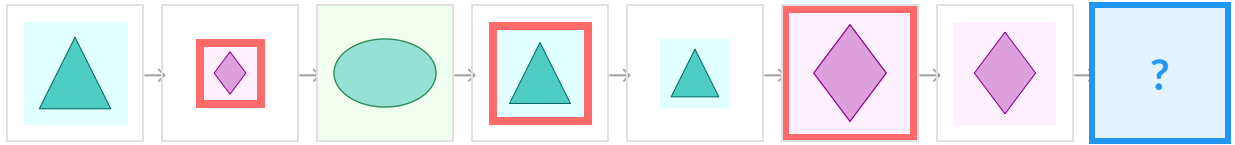


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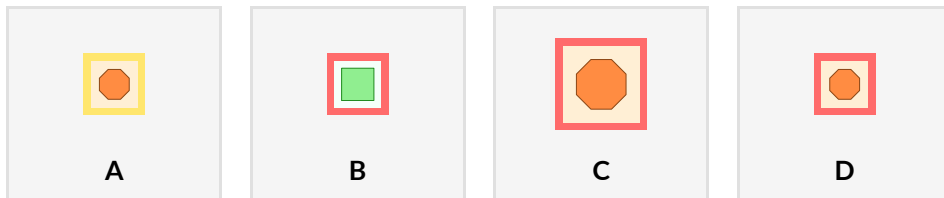
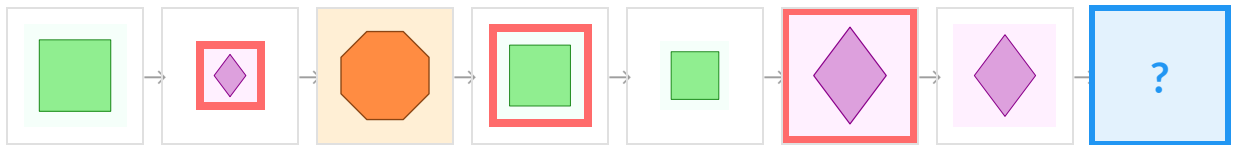
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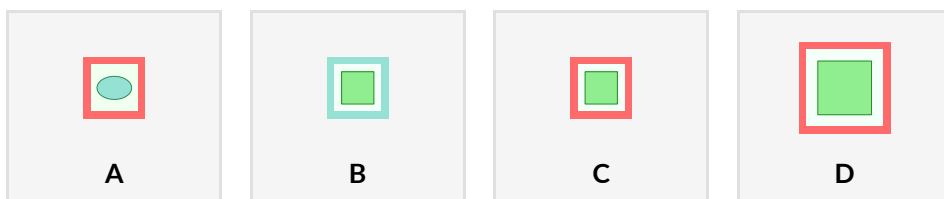
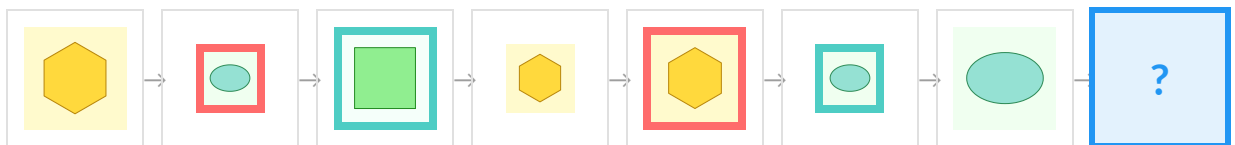
37.



38.



39.

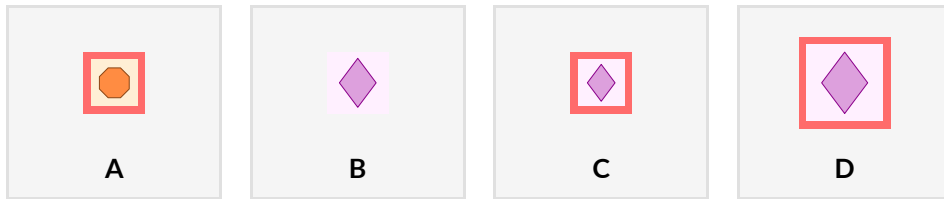
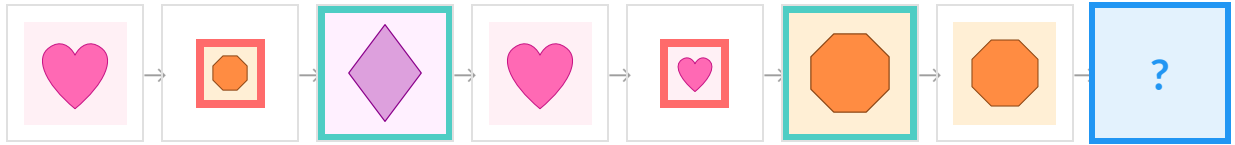


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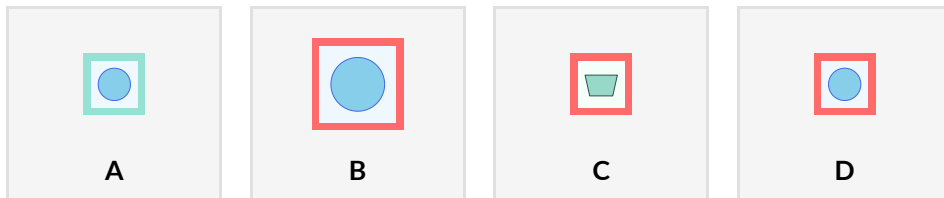
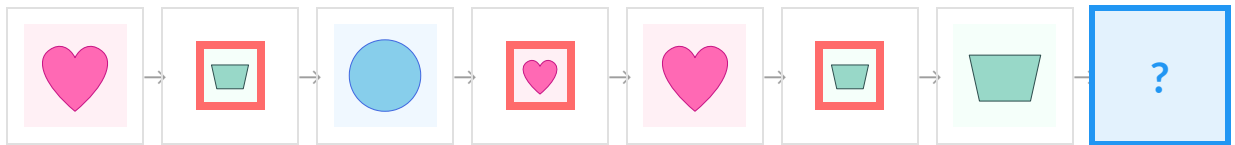
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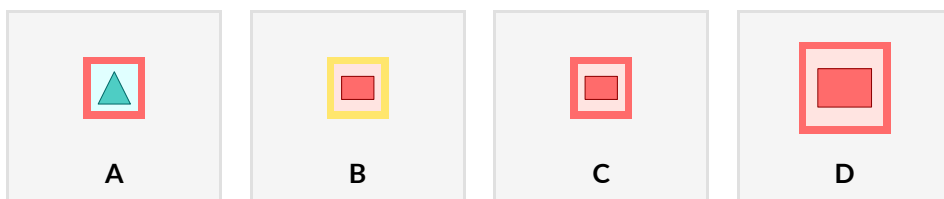
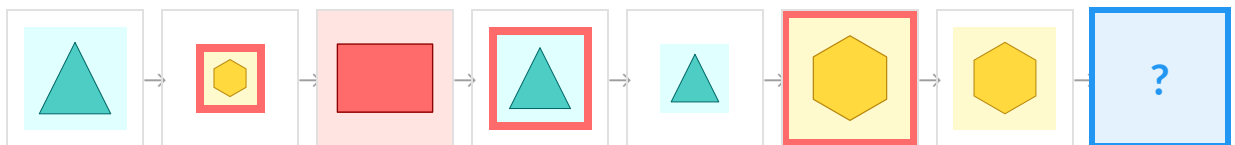
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41.



42.

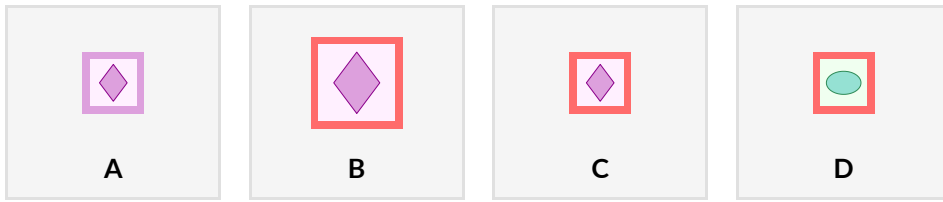
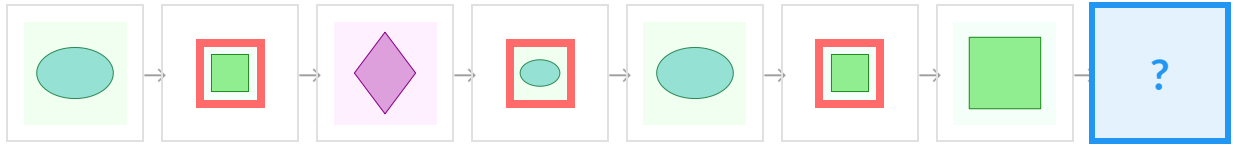


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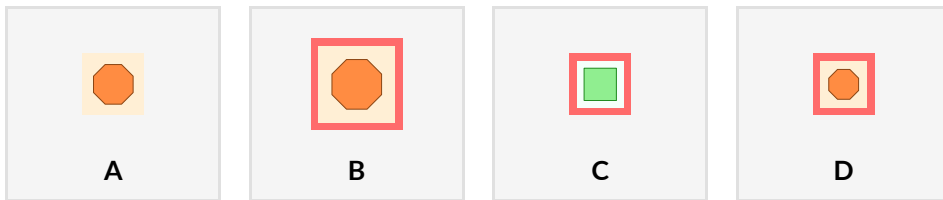
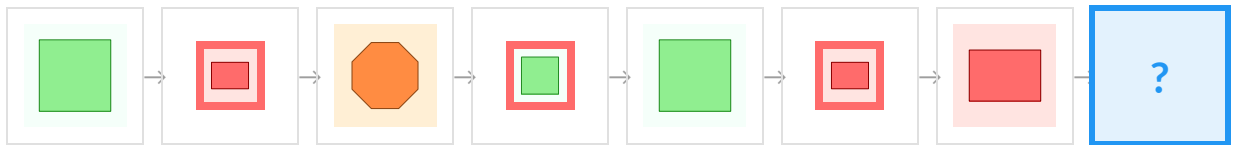
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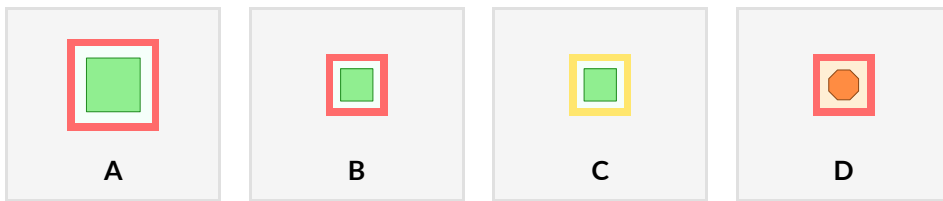
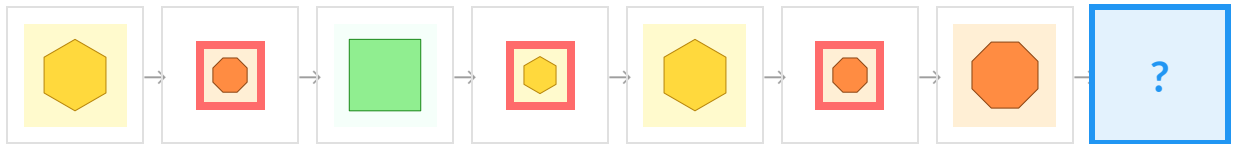
43.



44.



45.

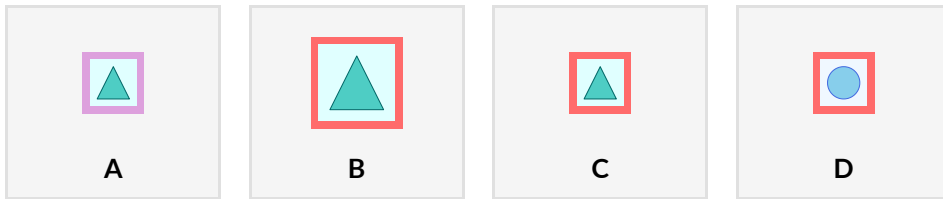
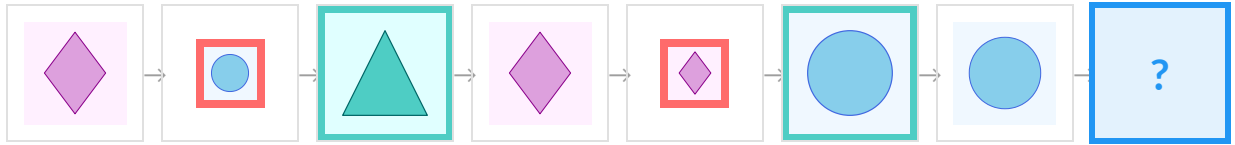


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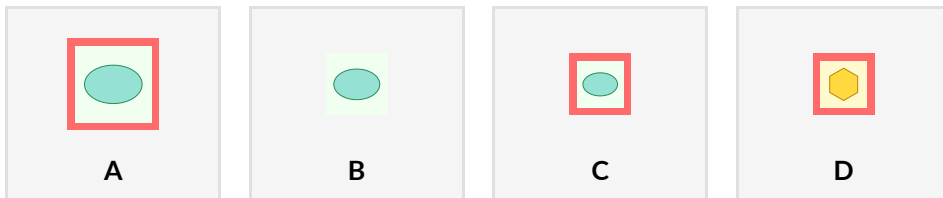
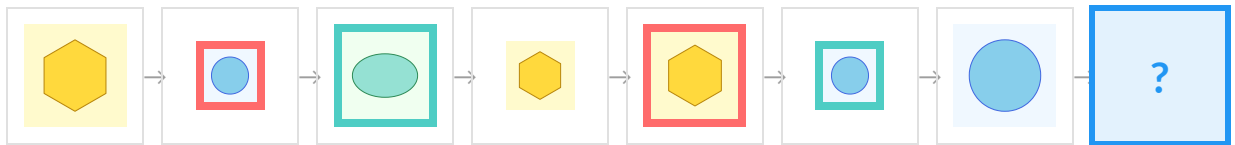
Difficulty: Hard

Complete each pattern by circling the correct shape:

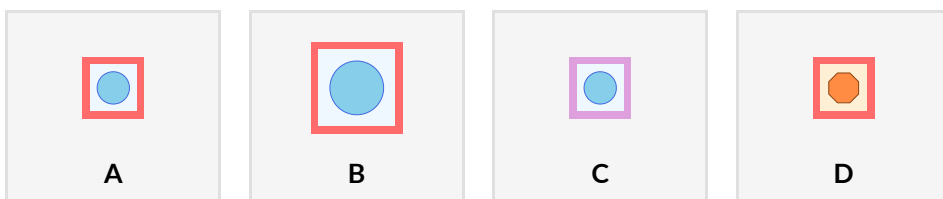
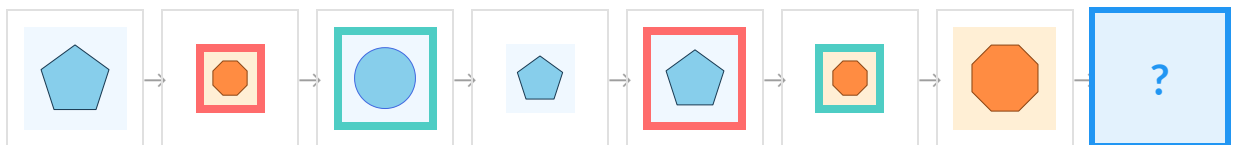
46.



47.



48.

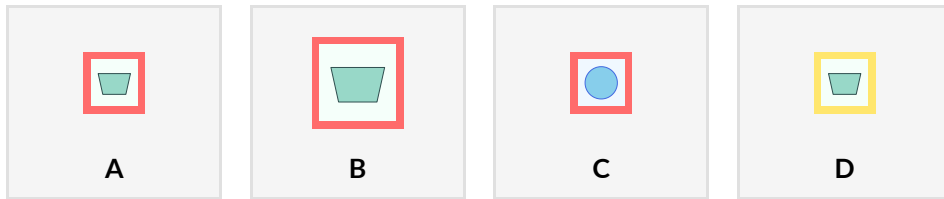
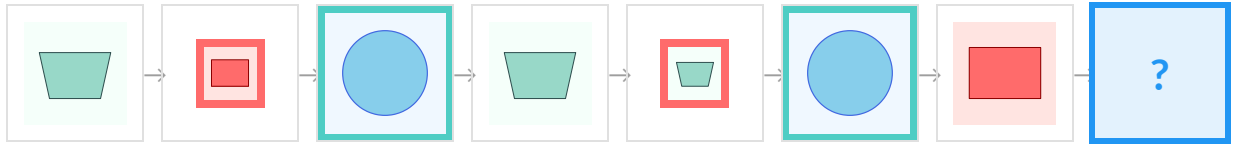


# Hard Level up Patterns

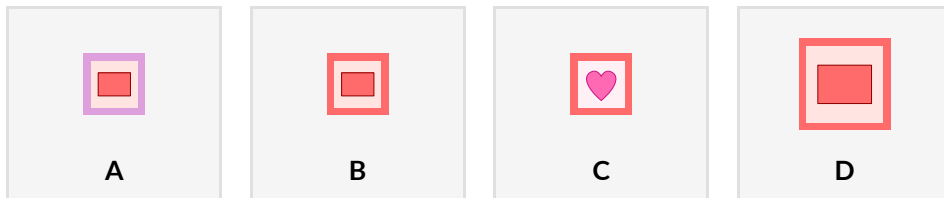
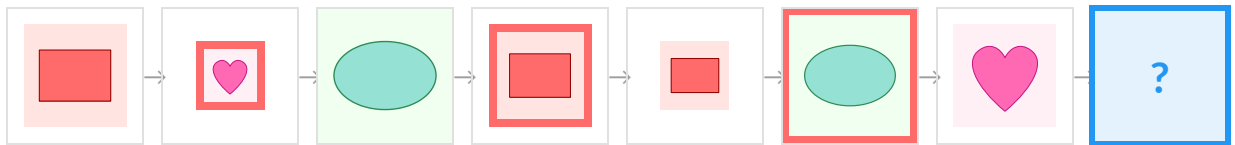
Difficulty: Hard

Complete each pattern by circling the correct shape:

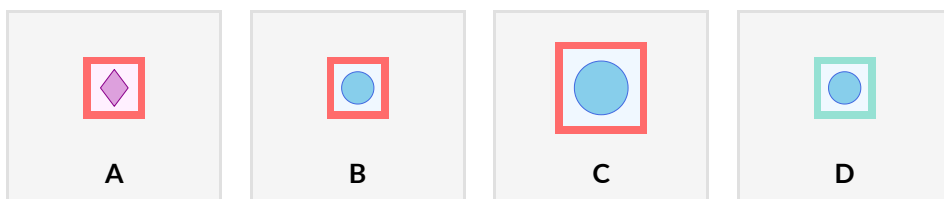
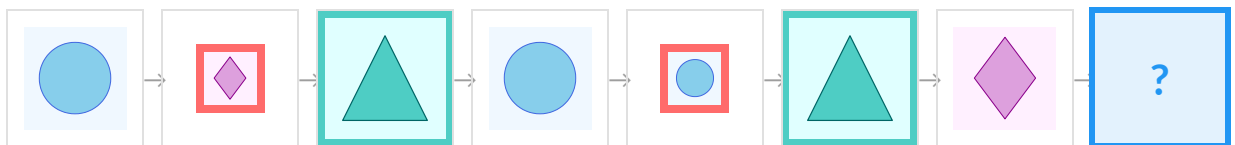
49.



50.



51.

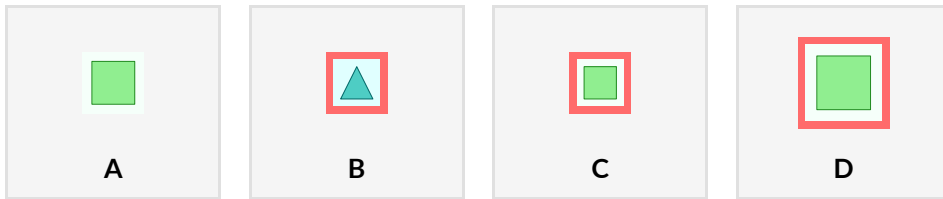
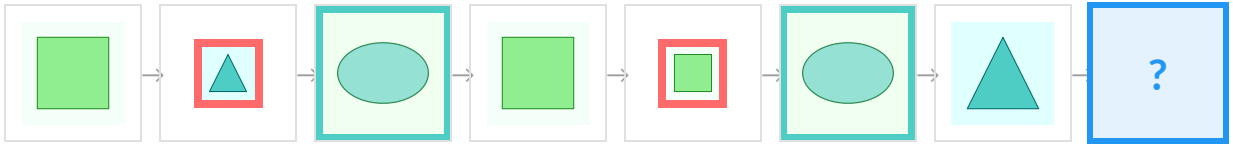


# Hard Level up Patterns

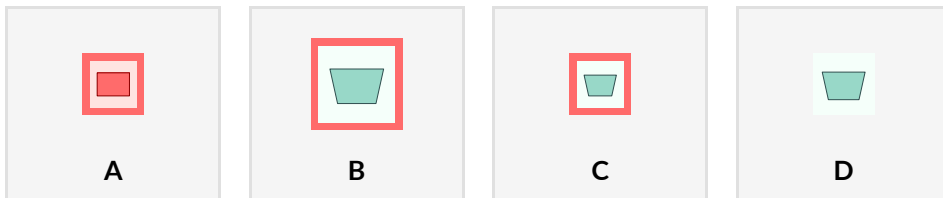
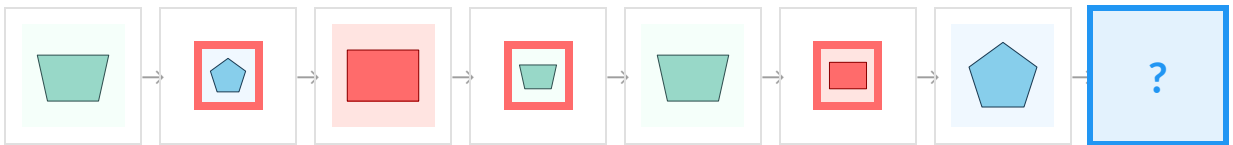
Difficulty: Hard

Complete each pattern by circling the correct shape:

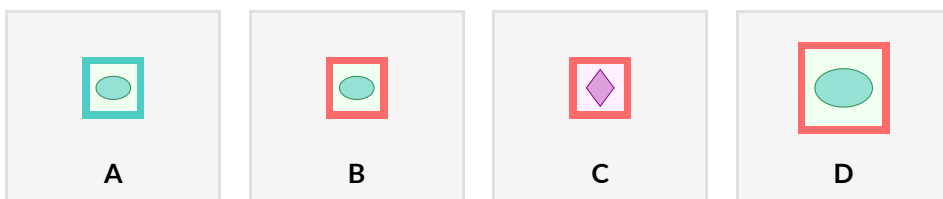
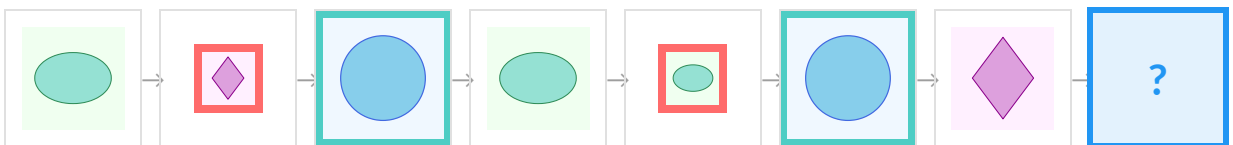
52.



53.



54.

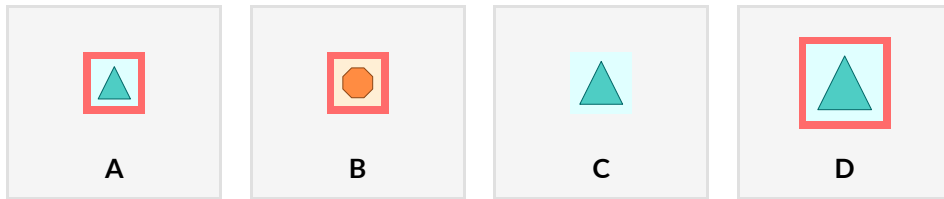
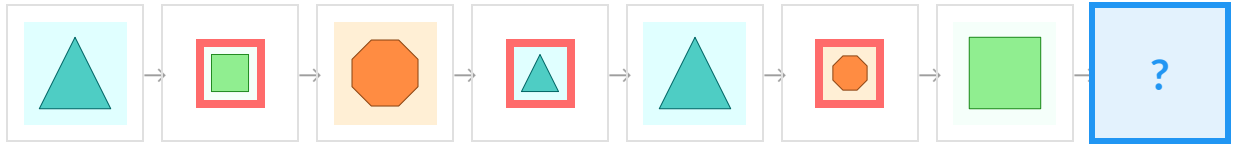


# Hard Level up Patterns

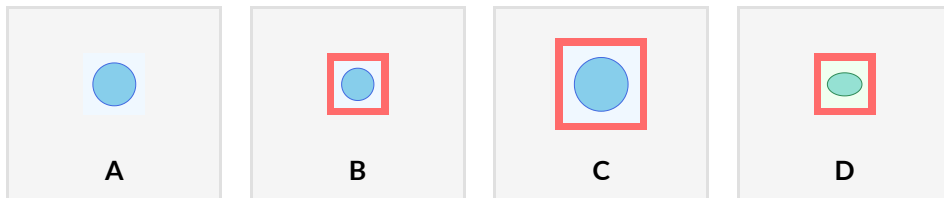
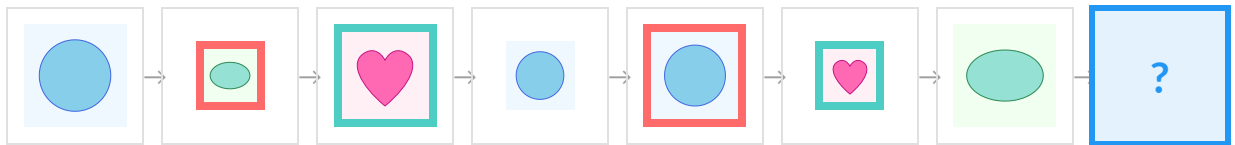
Difficulty: Hard

Complete each pattern by circling the correct shape:

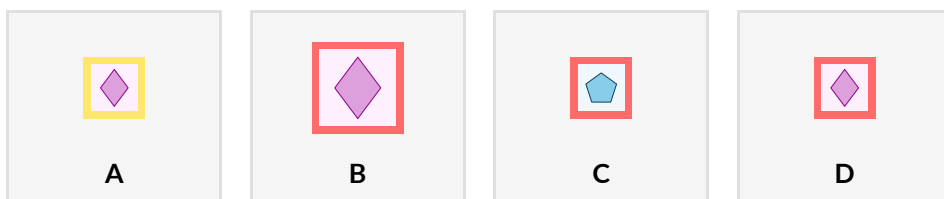
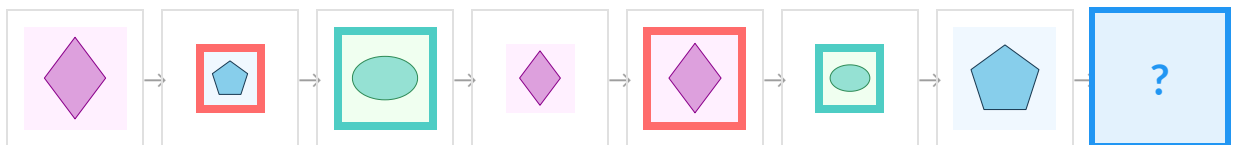
55.



56.



57.

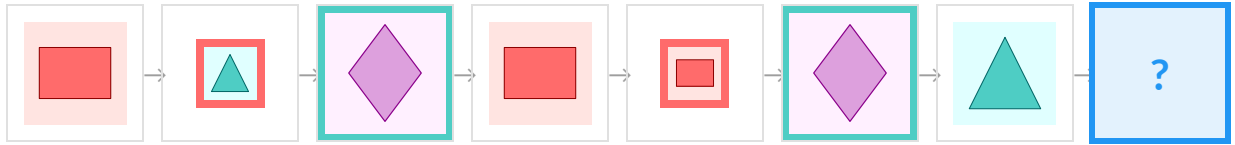


# Hard Level up Patterns

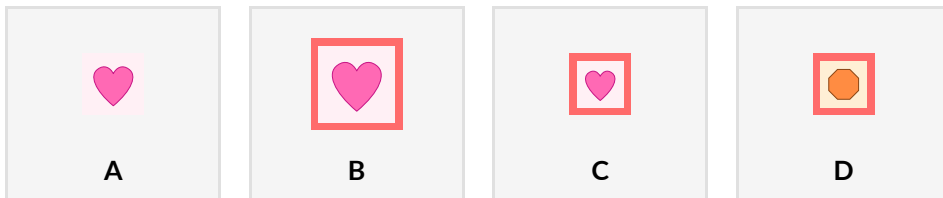
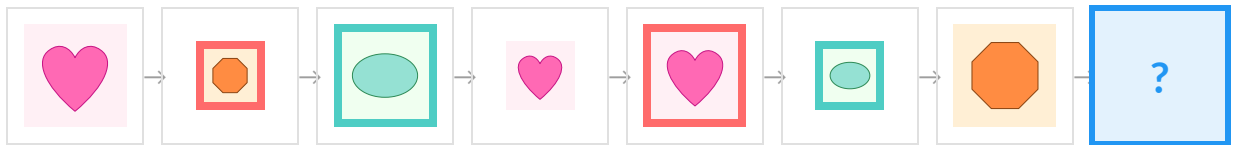
Difficulty: Hard

Complete each pattern by circling the correct shape:

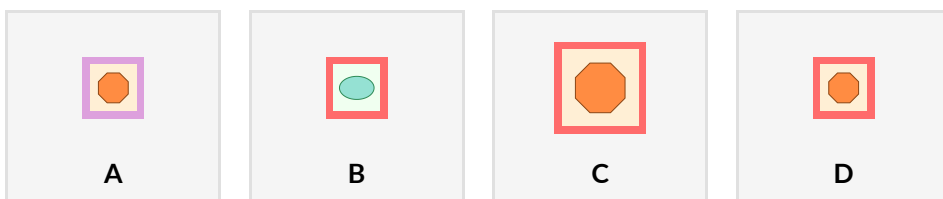
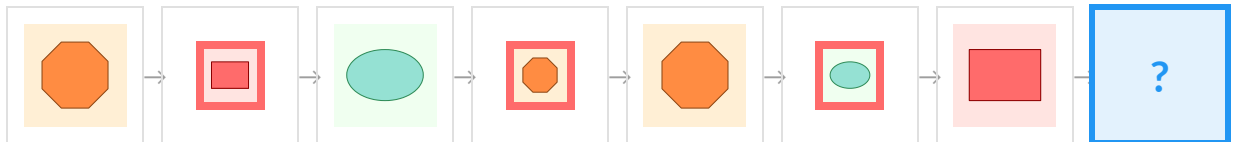
58.



59.



60.

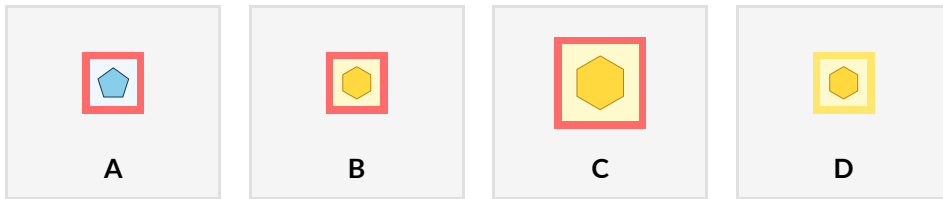
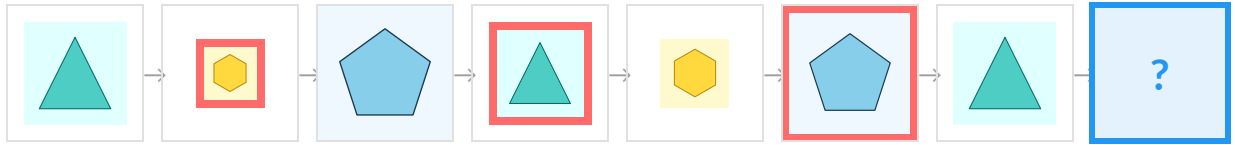


# Hard Level up Patterns

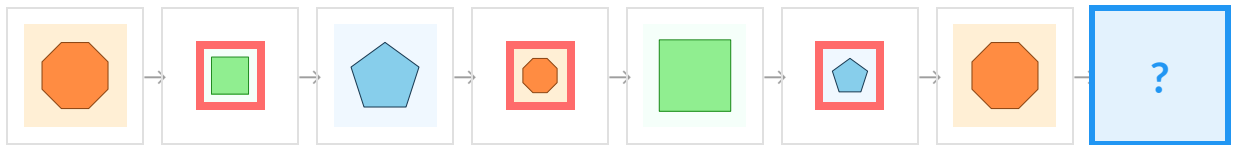
Difficulty: Hard

Complete each pattern by circling the correct shape:

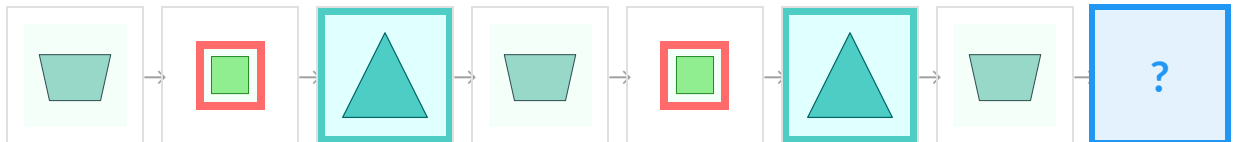
61.



62.



63.

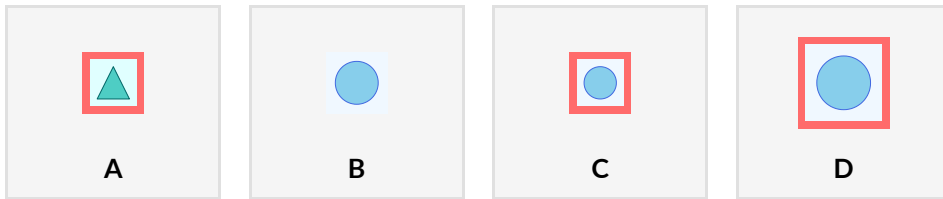
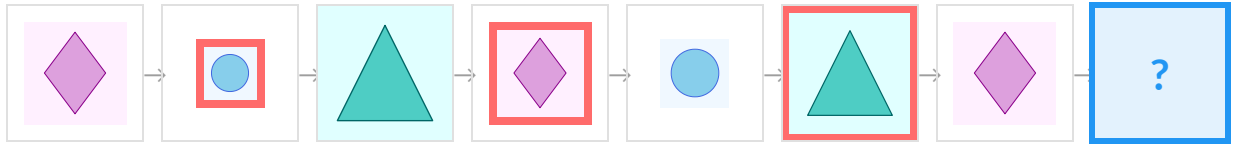


# Hard Level up Patterns

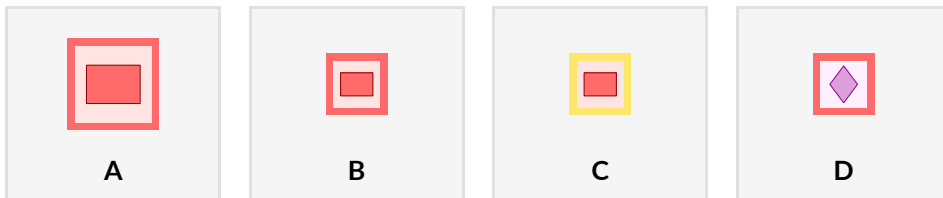
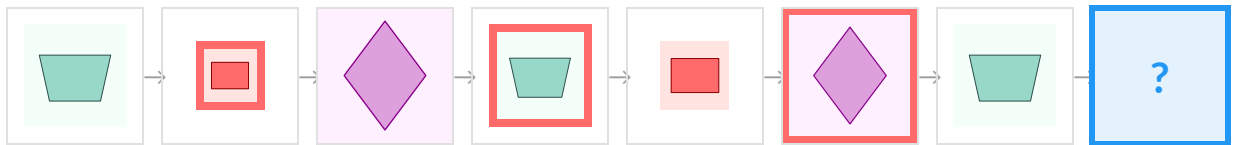
Difficulty: Hard

Complete each pattern by circling the correct shape:

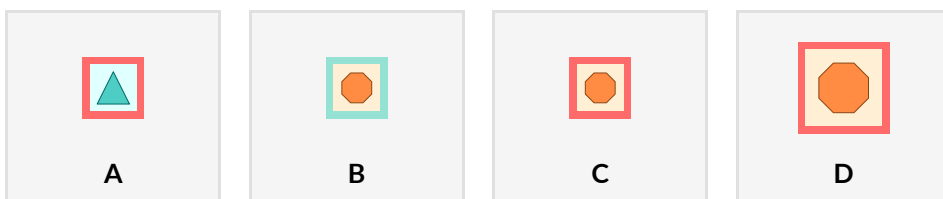
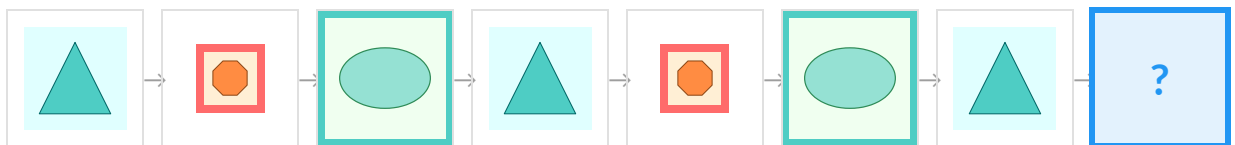
64.



65.



66.

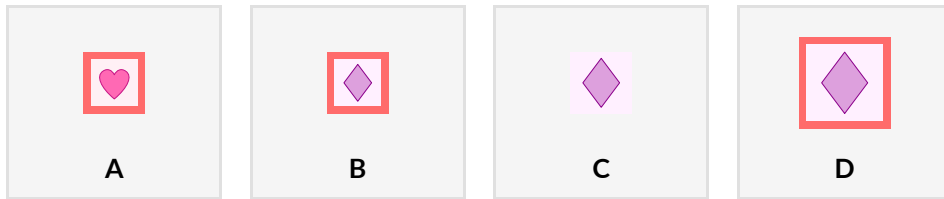
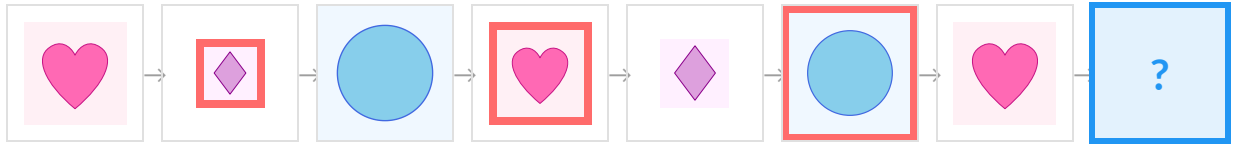


# Hard Level up Patterns

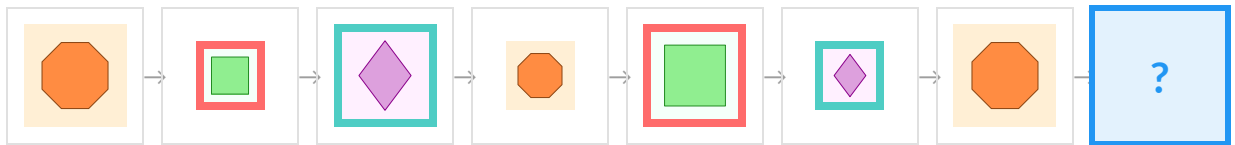
Difficulty: Hard

Complete each pattern by circling the correct shape:

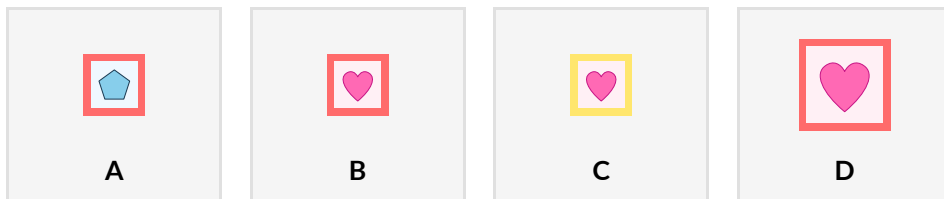
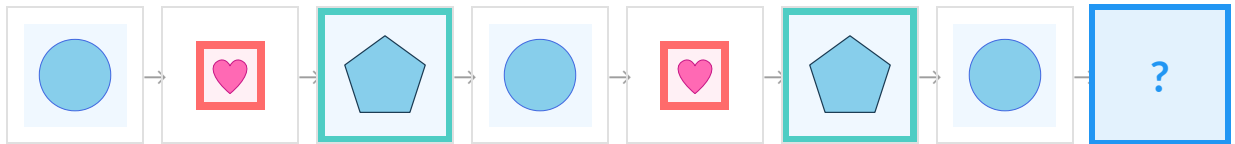
67.



68.



69.

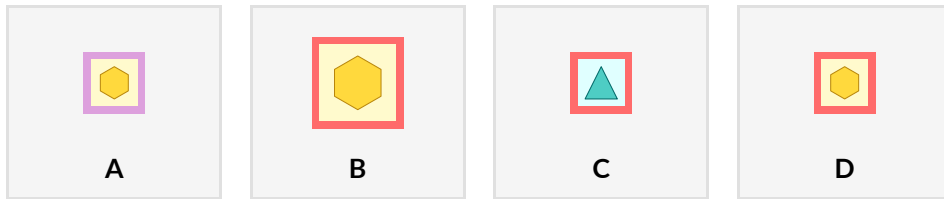
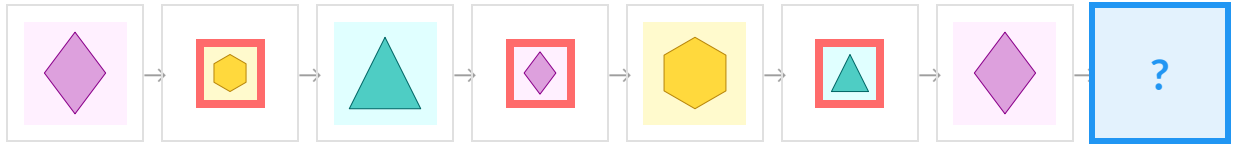


# Hard Level up Patterns

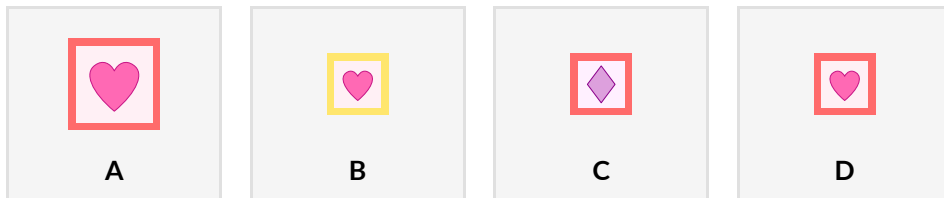
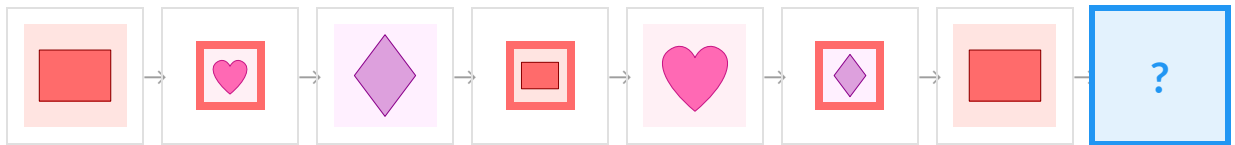
Difficulty: Hard

Complete each pattern by circling the correct shape:

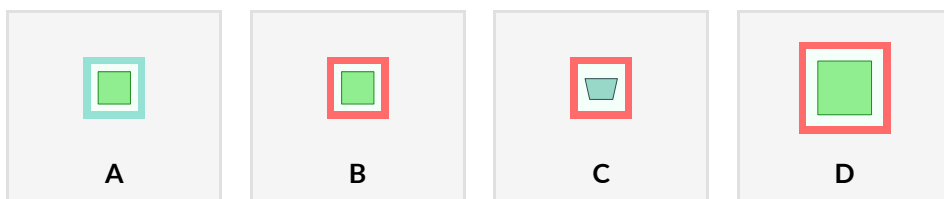
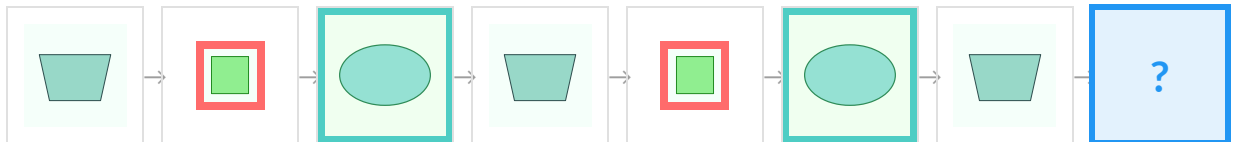
70.



71.



72.

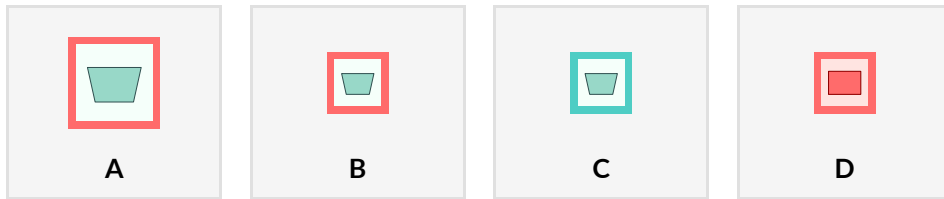
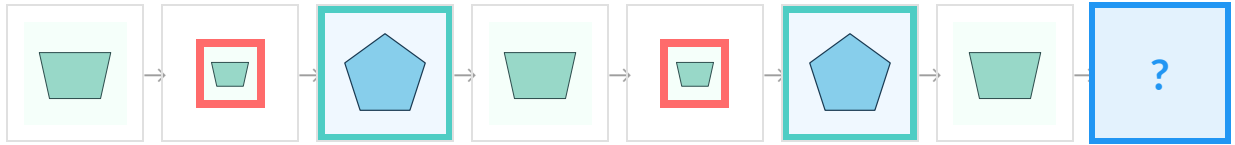


# Hard Level up Patterns

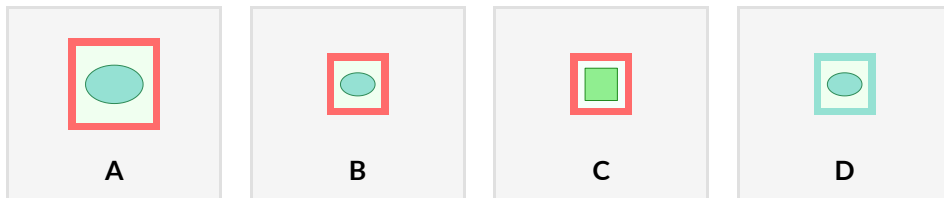
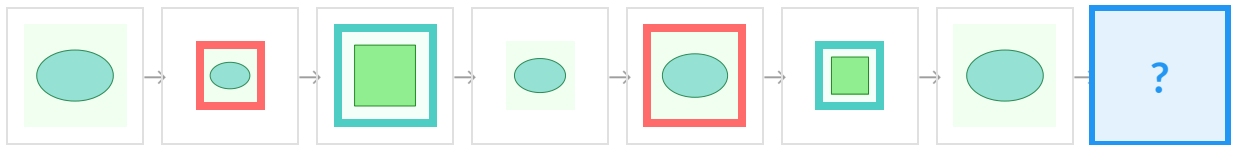
Difficulty: Hard

Complete each pattern by circling the correct shape:

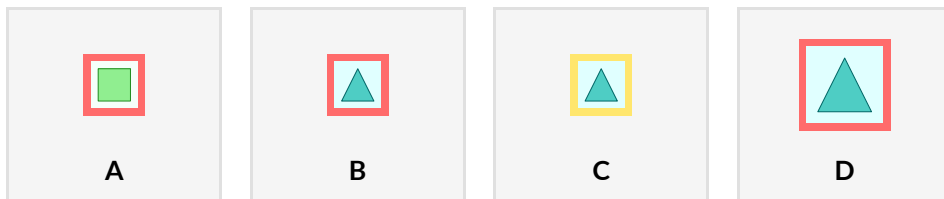
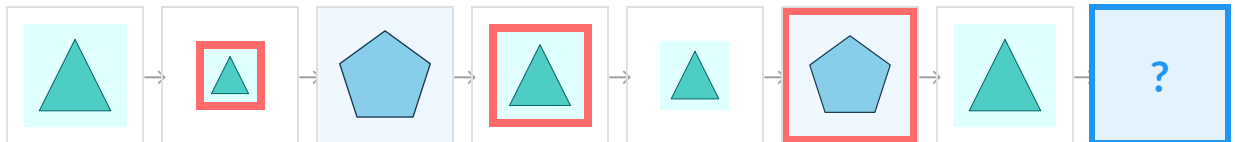
73.



74.



75.

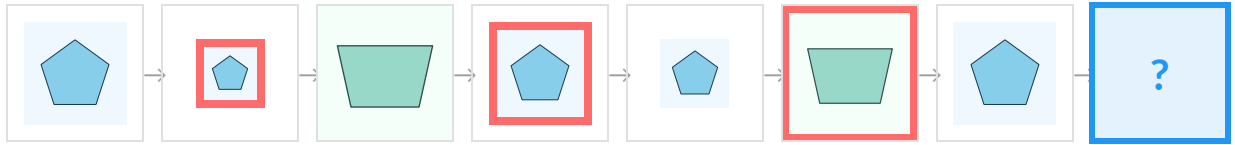


# Hard Level up Patterns

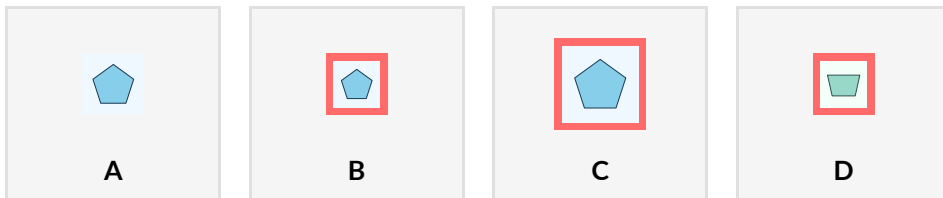
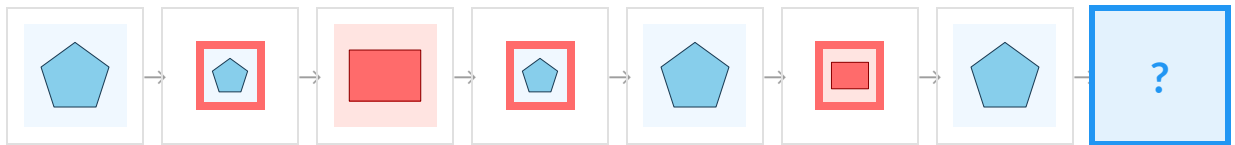
Difficulty: Hard

Complete each pattern by circling the correct shape:

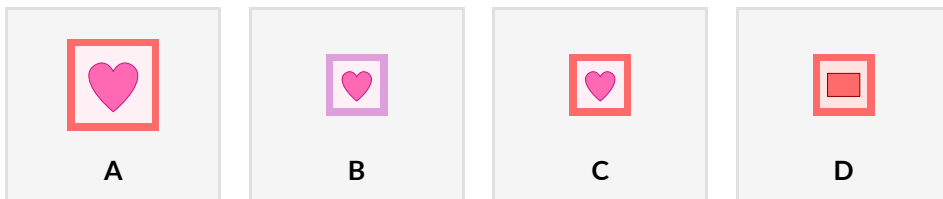
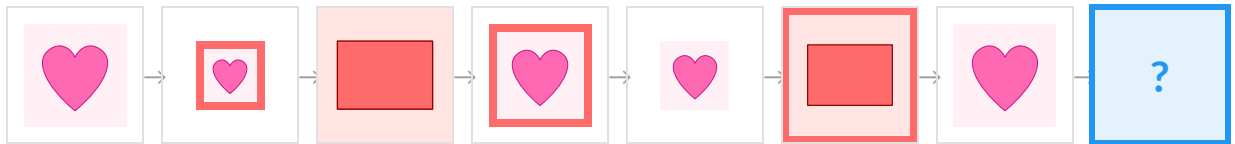
76.



77.



78.

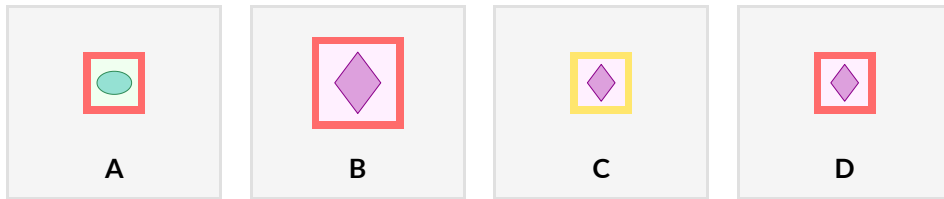
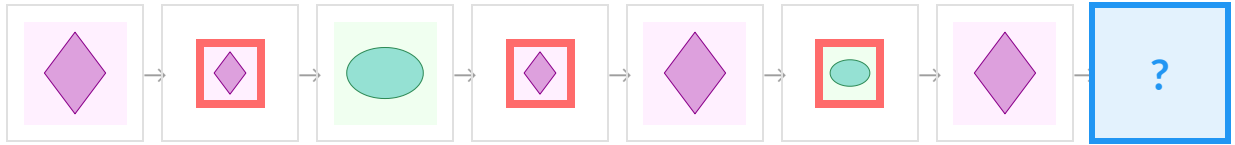


# Hard Level up Patterns

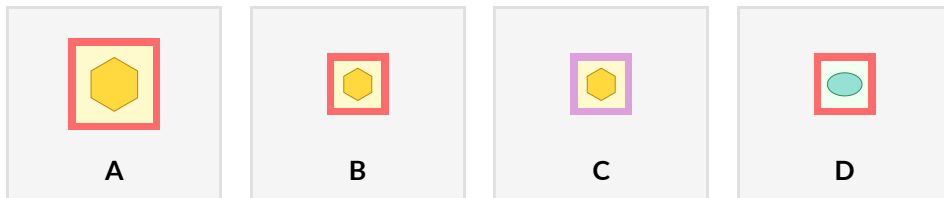
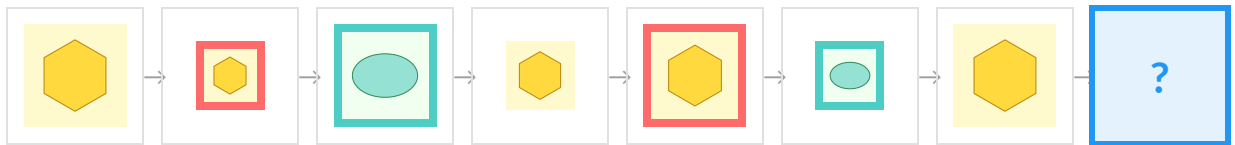
Difficulty: Hard

Complete each pattern by circling the correct shape:

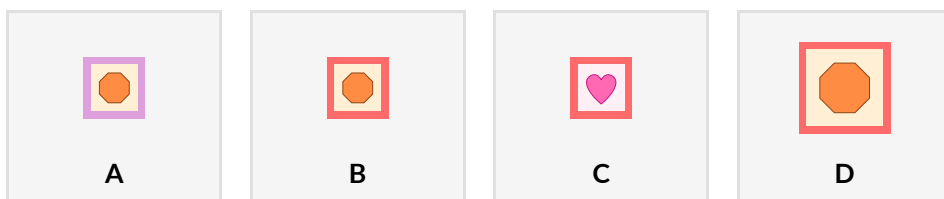
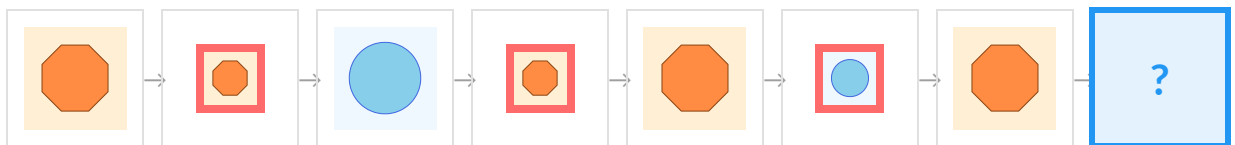
79.



80.



81.

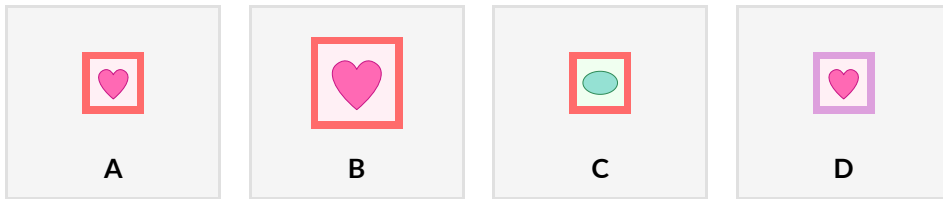
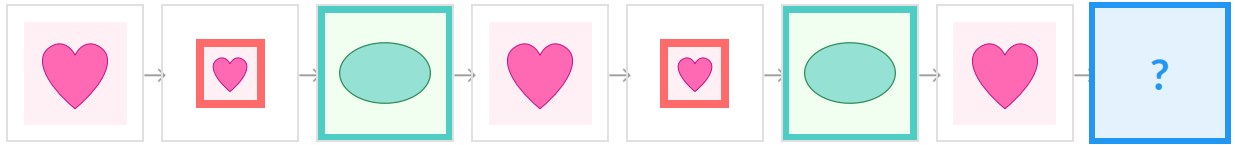


# Hard Level up Patterns

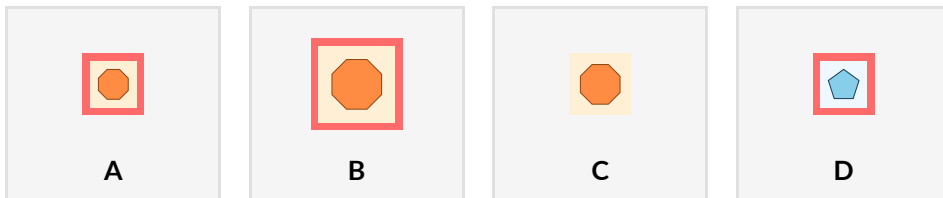
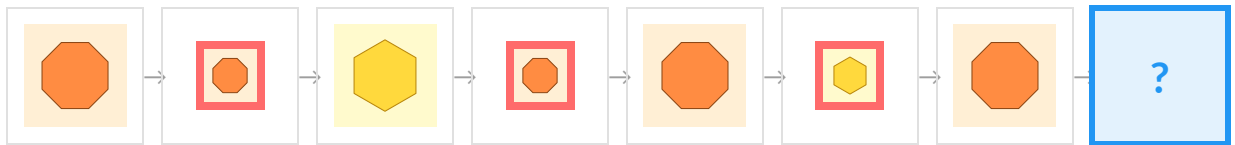
Difficulty: Hard

Complete each pattern by circling the correct shape:

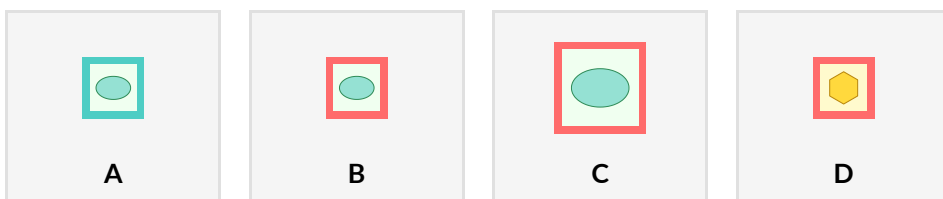
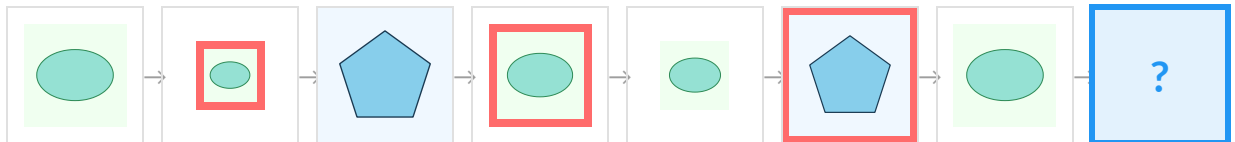
82.



83.



84.

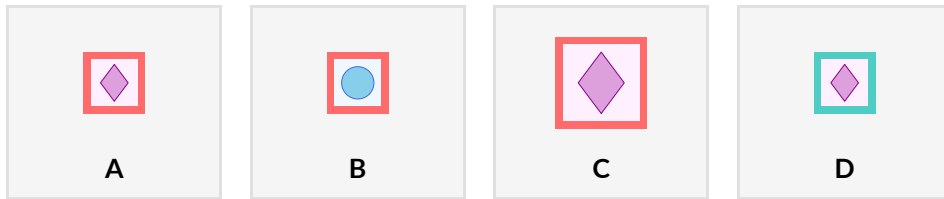
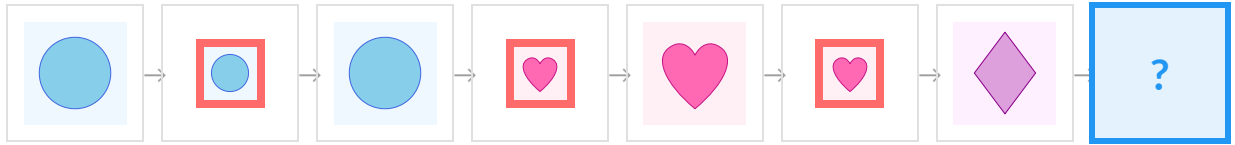


# Hard Level up Patterns

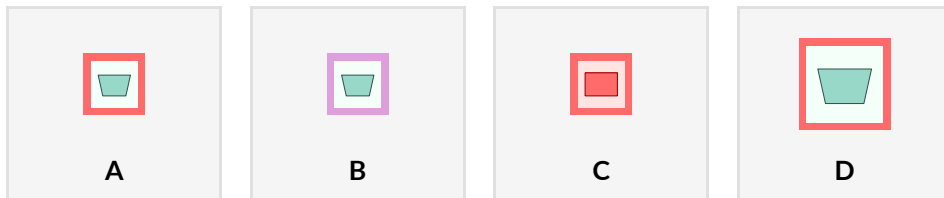
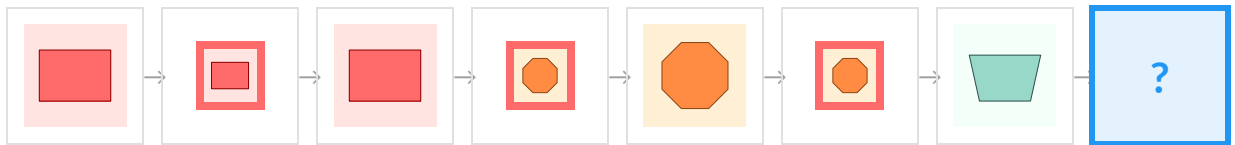
Difficulty: Hard

Complete each pattern by circling the correct shape:

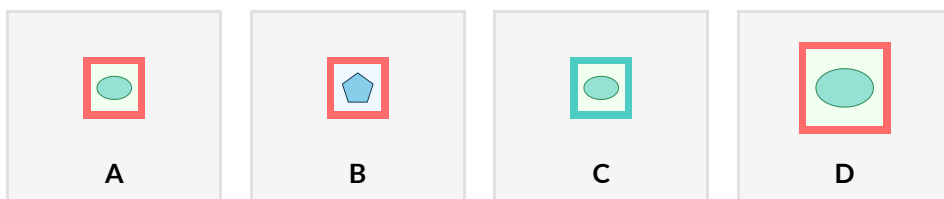
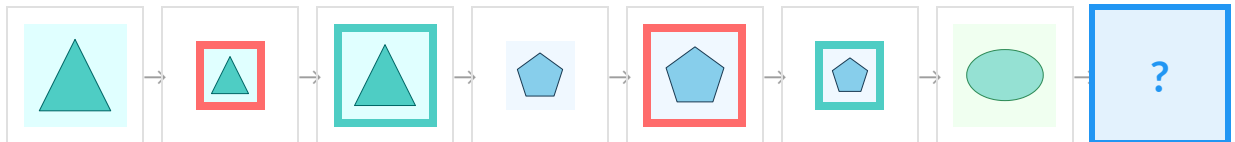
85.



86.



87.

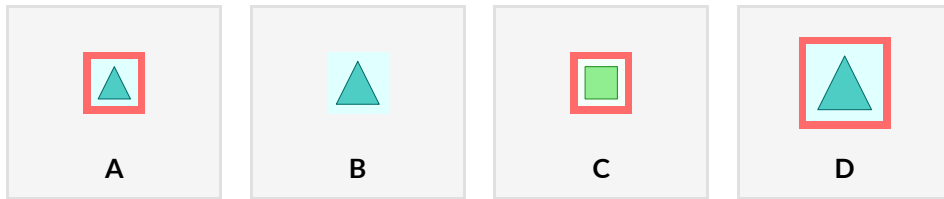
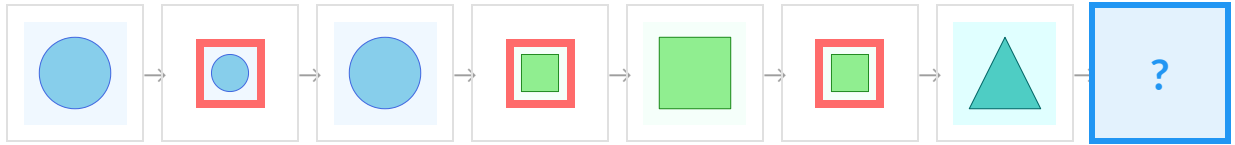


# Hard Level up Patterns

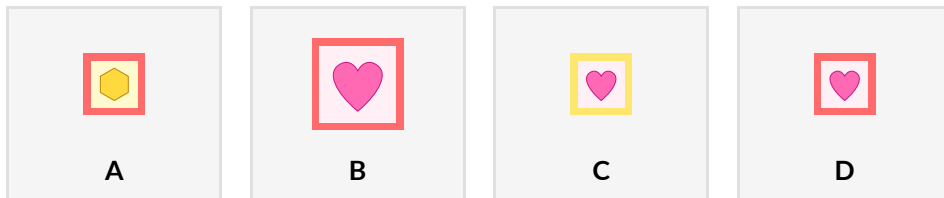
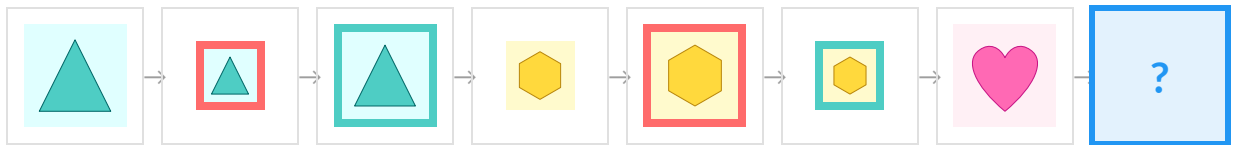
Difficulty: Hard

Complete each pattern by circling the correct shape:

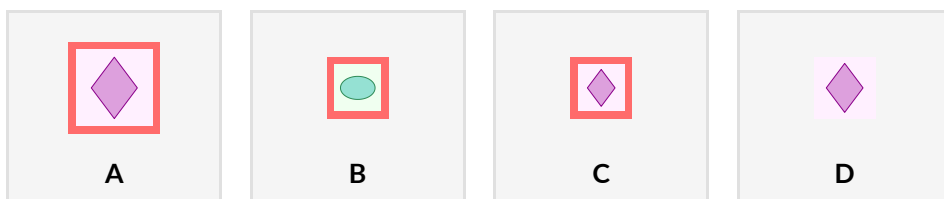
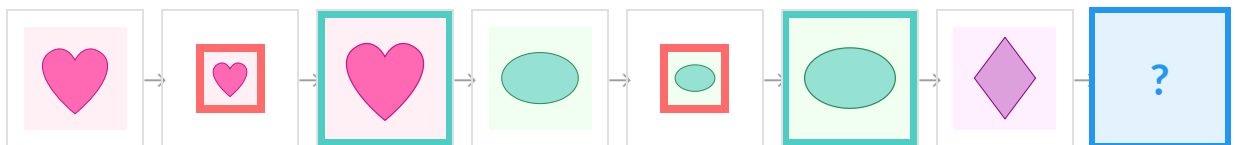
88.



89.



90.

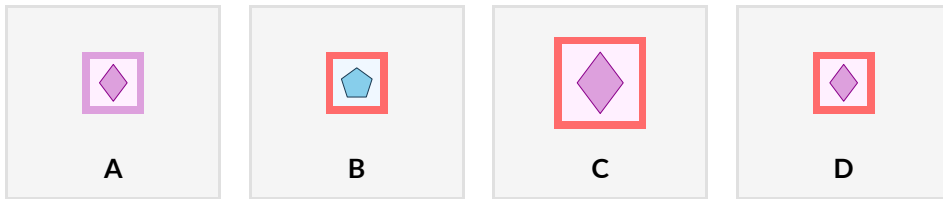
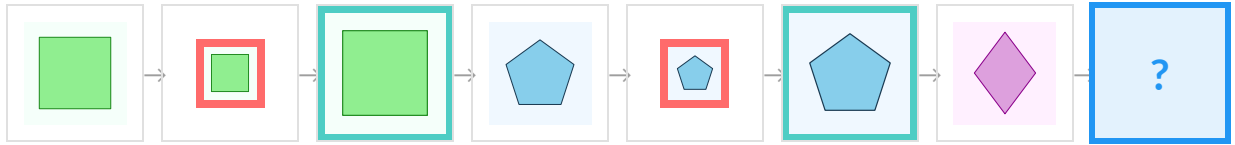


# Hard Level up Patterns

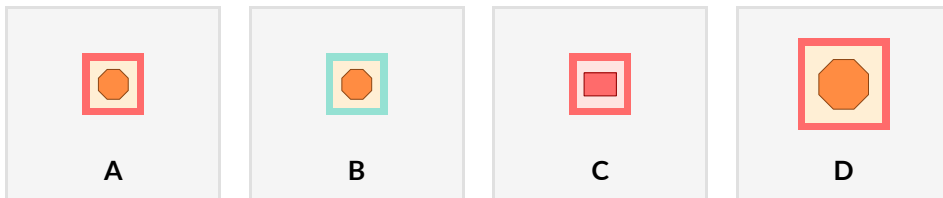
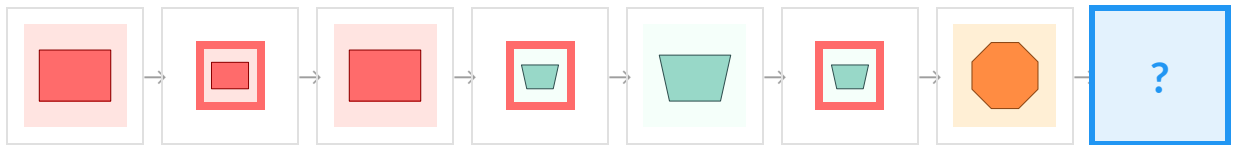
Difficulty: Hard

Complete each pattern by circling the correct shape:

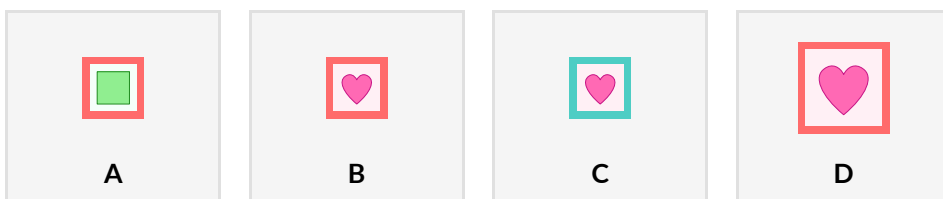
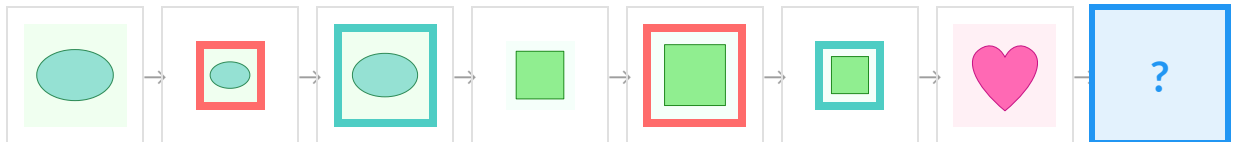
91.



92.



93.

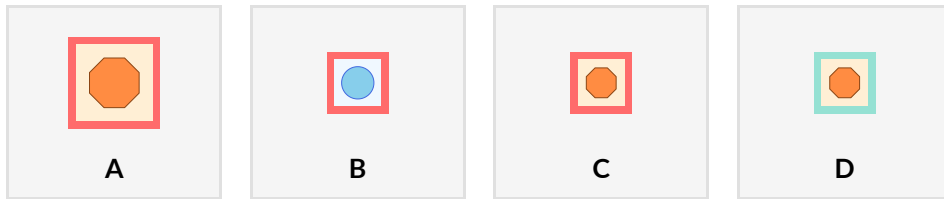
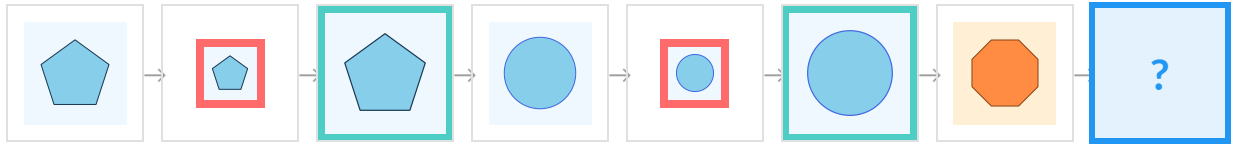


# Hard Level up Patterns

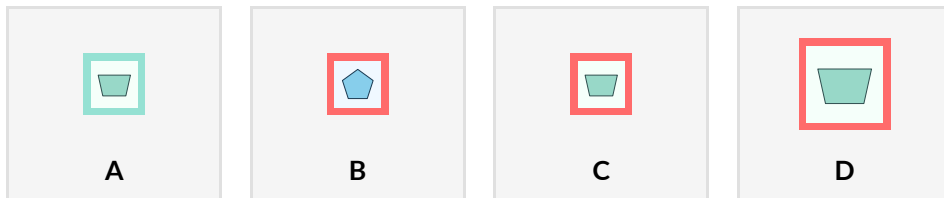
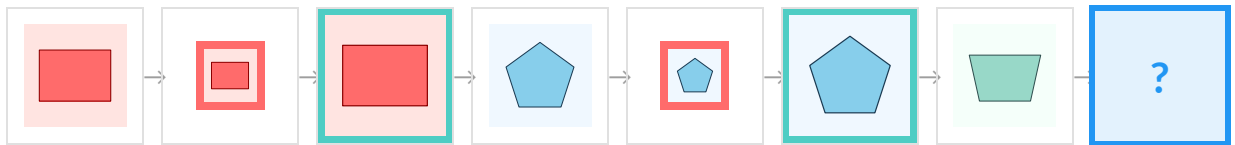
Difficulty: Hard

Complete each pattern by circling the correct shape:

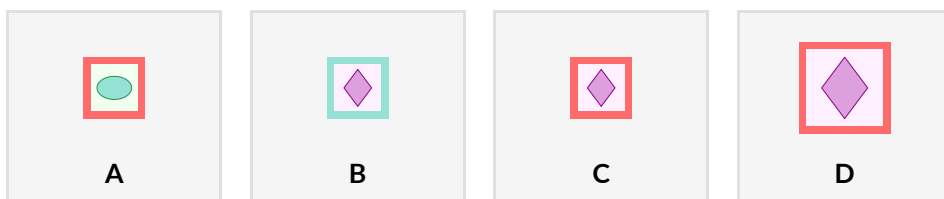
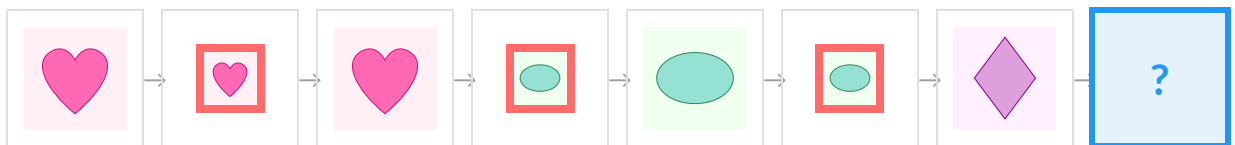
94.



95.



96.



# Answer Key

#	Pattern Type	Answer	Shape
1	Alternating	B	Octagon (Small, Red)
2	Alternating	B	Heart (Small, Red)
3	Alternating	C	Trapezium (Small, Red)
4	Alternating	A	Hexagon (Small, Red)
5	Alternating	D	Hexagon (Small, Red)
6	Alternating	D	Pentagon (Small, Red)
7	Alternating	C	Square (Small, Red)
8	Alternating	B	Rectangle (Small, Red)
9	Alternating	C	Hexagon (Small, Red)
10	Alternating	C	Square (Small, Red)
11	Alternating	C	Heart (Small, Red)
12	Alternating	B	Octagon (Small, Red)
13	ComplexRepeat	D	Octagon (Small, Red)
14	ComplexRepeat	B	Pentagon (Small, Red)
15	ComplexRepeat	C	Heart (Small, Red)
16	ComplexRepeat	D	Octagon (Small, Red)
17	ComplexRepeat	B	Diamond (Small, Red)
18	ComplexRepeat	A	Rectangle (Small, Red)
19	ComplexRepeat	C	Heart (Small, Red)
20	ComplexRepeat	D	Octagon (Small, Red)
21	ComplexRepeat	B	Square (Small, Red)
22	ComplexRepeat	C	Hexagon (Small, Red)
23	ComplexRepeat	D	Rectangle (Small, Red)
24	ComplexRepeat	D	Pentagon (Small, Red)
25	DoubleRepeat	C	Triangle (Small, Red)
26	DoubleRepeat	A	Triangle (Small, Red)
27	DoubleRepeat	B	Trapezium (Small, Red)
28	DoubleRepeat	A	Heart (Small, Red)
29	DoubleRepeat	D	Oval (Small, Red)
30	DoubleRepeat	D	Rectangle (Small, Red)
31	DoubleRepeat	A	Oval (Small, Red)
32	DoubleRepeat	D	Square (Small, Red)
33	DoubleRepeat	B	Hexagon (Small, Red)

## Answer Key

34	DoubleRepeat	B	Heart (Small, Red)
35	DoubleRepeat	C	Square (Small, Red)
36	DoubleRepeat	D	Trapezium (Small, Red)
37	Growing	D	Oval (Small, Red)
38	Growing	D	Octagon (Small, Red)
39	Growing	C	Square (Small, Red)
40	Growing	C	Diamond (Small, Red)
41	Growing	D	Circle (Small, Red)
42	Growing	C	Rectangle (Small, Red)
43	Growing	C	Diamond (Small, Red)
44	Growing	D	Octagon (Small, Red)
45	Growing	B	Square (Small, Red)
46	Growing	C	Triangle (Small, Red)
47	Growing	C	Oval (Small, Red)
48	Growing	A	Circle (Small, Red)
49	Mirror	A	Trapezium (Small, Red)
50	Mirror	B	Rectangle (Small, Red)
51	Mirror	B	Circle (Small, Red)
52	Mirror	C	Square (Small, Red)
53	Mirror	C	Trapezium (Small, Red)
54	Mirror	B	Oval (Small, Red)
55	Mirror	A	Triangle (Small, Red)
56	Mirror	B	Circle (Small, Red)
57	Mirror	D	Diamond (Small, Red)
58	Mirror	A	Rectangle (Small, Red)
59	Mirror	C	Heart (Small, Red)
60	Mirror	D	Octagon (Small, Red)
61	Sequence	B	Hexagon (Small, Red)
62	Sequence	D	Square (Small, Red)
63	Sequence	D	Square (Small, Red)
64	Sequence	C	Circle (Small, Red)
65	Sequence	B	Rectangle (Small, Red)
66	Sequence	C	Octagon (Small, Red)
67	Sequence	B	Diamond (Small, Red)
68	Sequence	D	Square (Small, Red)

## Answer Key

69	Sequence	B	Heart (Small, Red)
70	Sequence	D	Hexagon (Small, Red)
71	Sequence	D	Heart (Small, Red)
72	Sequence	B	Square (Small, Red)
73	Stutter	B	Trapezium (Small, Red)
74	Stutter	B	Oval (Small, Red)
75	Stutter	B	Triangle (Small, Red)
76	Stutter	C	Pentagon (Small, Red)
77	Stutter	B	Pentagon (Small, Red)
78	Stutter	C	Heart (Small, Red)
79	Stutter	D	Diamond (Small, Red)
80	Stutter	B	Hexagon (Small, Red)
81	Stutter	B	Octagon (Small, Red)
82	Stutter	A	Heart (Small, Red)
83	Stutter	A	Octagon (Small, Red)
84	Stutter	B	Oval (Small, Red)
85	TripleRepeat	A	Diamond (Small, Red)
86	TripleRepeat	A	Trapezium (Small, Red)
87	TripleRepeat	A	Oval (Small, Red)
88	TripleRepeat	A	Triangle (Small, Red)
89	TripleRepeat	D	Heart (Small, Red)
90	TripleRepeat	C	Diamond (Small, Red)
91	TripleRepeat	D	Diamond (Small, Red)
92	TripleRepeat	A	Octagon (Small, Red)
93	TripleRepeat	B	Heart (Small, Red)
94	TripleRepeat	C	Octagon (Small, Red)
95	TripleRepeat	C	Trapezium (Small, Red)
96	TripleRepeat	C	Diamond (Small, Red)