Lines of symmetry

68a

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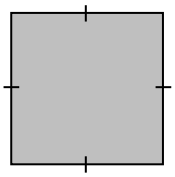
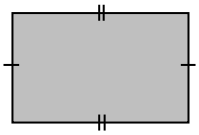
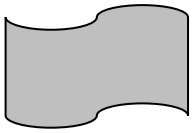
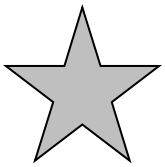
Name:

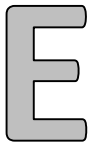
How many lines of symmetry does each shape have?

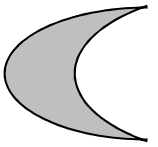
a) 

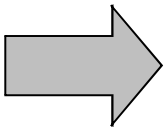
b) 

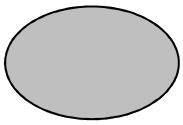
c) 

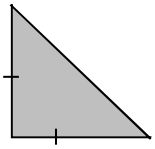
d) 

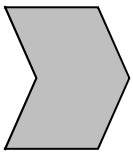
e) 

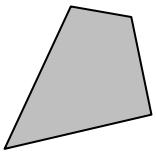
f) 

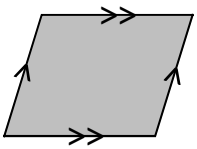
g) 

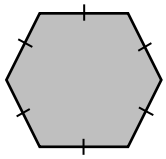
h) 

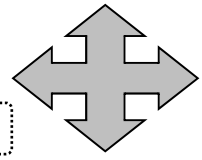
i) 

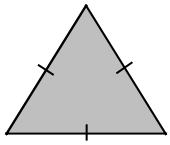
j) 

k) 

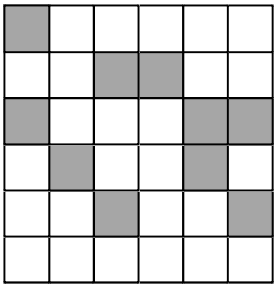
l) 

m) 

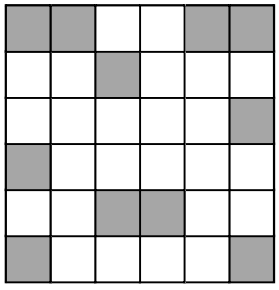
n) 

o) 

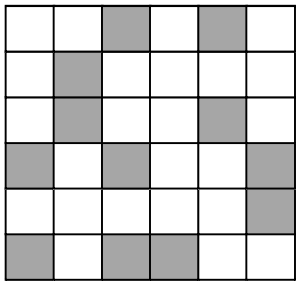
p) Shade 4 boxes so the pattern below has just 1 line of symmetry.



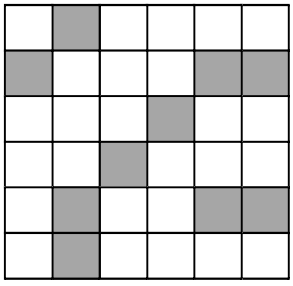
q) Shade 5 boxes so the pattern below has just 2 lines of symmetry.



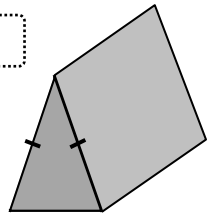
r) Shade 6 boxes so the pattern below has just 1 line of symmetry.

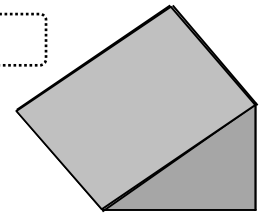


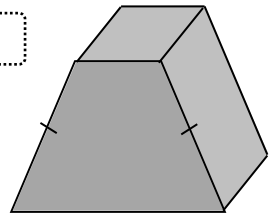
s) Shade 6 boxes so the pattern below has just 4 lines of symmetry.

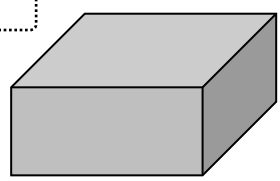


How many **planes** of symmetry do the shapes below have?

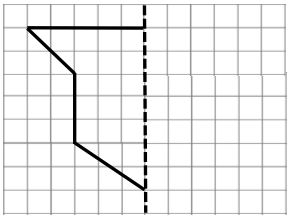
t) 

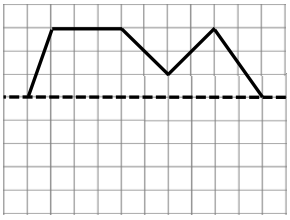
u) 

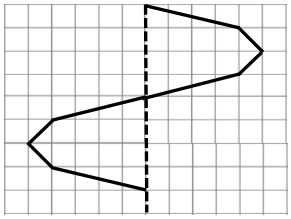
v) 

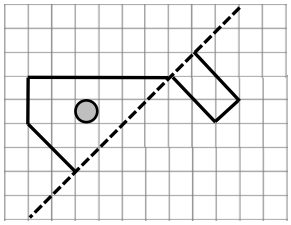
w) 

Complete each figure – the dashed line is the line of symmetry

x) 

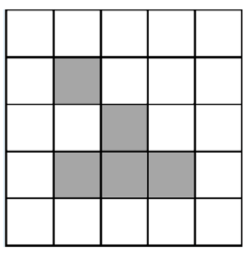
y) 

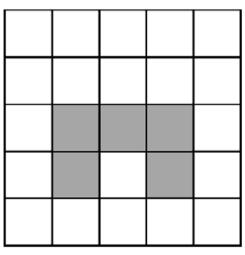
z) 

α) 

Exam question:

Shade one square in <u>each</u> of these two Diagrams so they have **only** one line of Symmetry.

a) 

b) 

Rotational symmetry

68b

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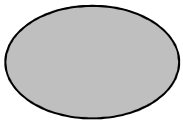
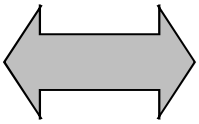
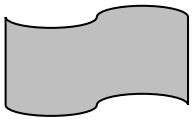
Name:

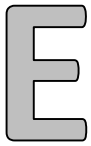
Write down the order of rotational symmetry of the shapes:

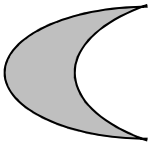
a) ☐ 

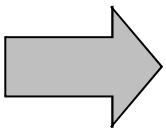
b) ☐ 

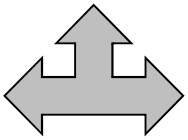
c) ☐ 

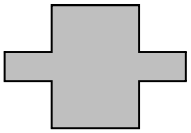
d) ☐ 

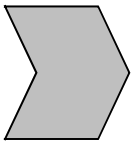
e) ☐ 

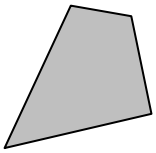
f) ☐ 

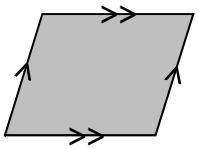
g) ☐ 

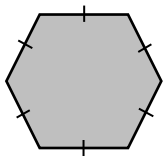
h) ☐ 

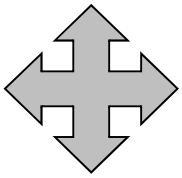
i) ☐ 

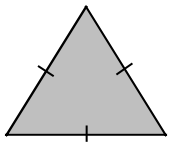
j) ☐ 

k) ☐ 

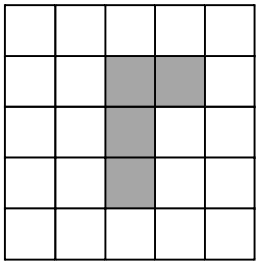
l) ☐ 

m) ☐ 

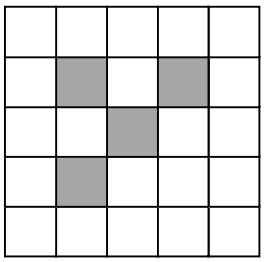
n) ☐ 

o) ☐ 

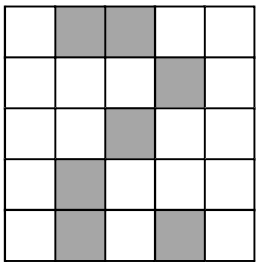
p) Shade 1 box in the pattern below so that it has a rotational symmetry of order 2



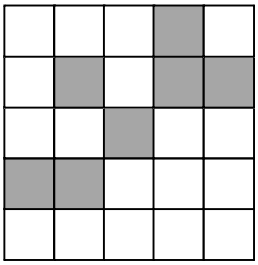
q) Shade 1 box in the pattern below so that it has a rotational symmetry of order 4



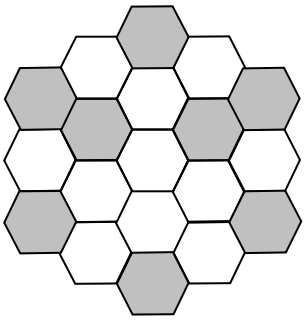
r) Shade 2 boxes in the pattern below so that it has a rotational symmetry of order 2



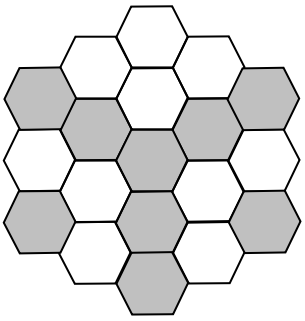
s) Shade 2 boxes in the pattern below so that it has a rotational symmetry of order 2



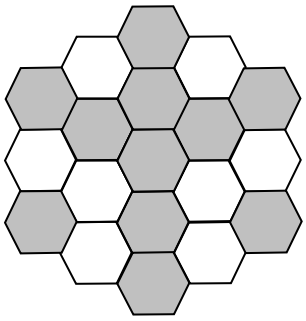
t) Shade 1 hexagon in the pattern below so that it has a rotational symmetry of order 3



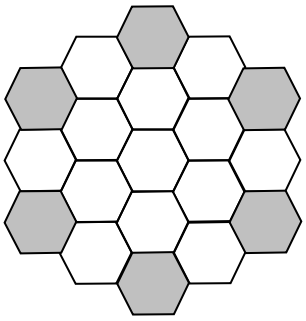
u) Shade 1 hexagon in the pattern below so that it has a rotational symmetry of order 3



v) Shade 2 hexagons in the pattern below so that it has a rotational symmetry of order 6



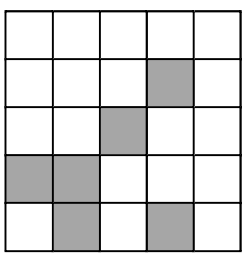
w) Shade 1 hexagon in the pattern below so that it has a rotational symmetry of order 6



:Exam question:

Shade three squares in each of these two diagrams so they have rotational symmetry order 2.

a)



b)