



# Warm Up

Grade 8

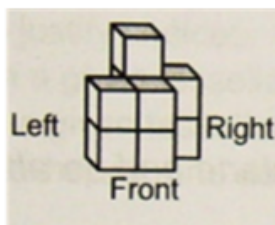
Nov. 2, 2022



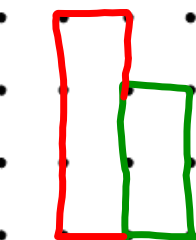
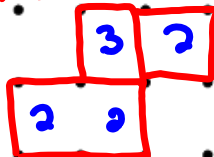
Draw the views of the front, left, right and top.

-include mat plan

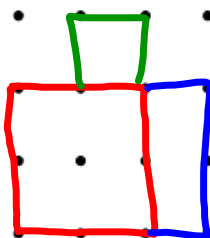
9 blocks



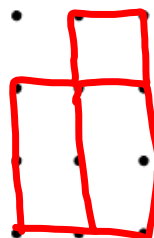
Top / Mat



Left



Front

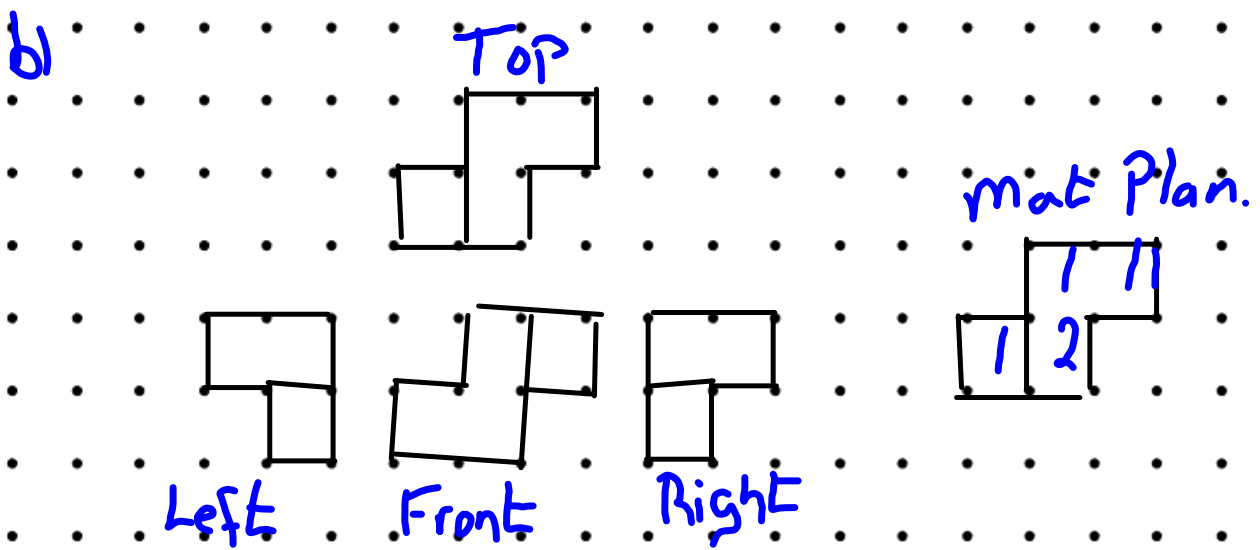
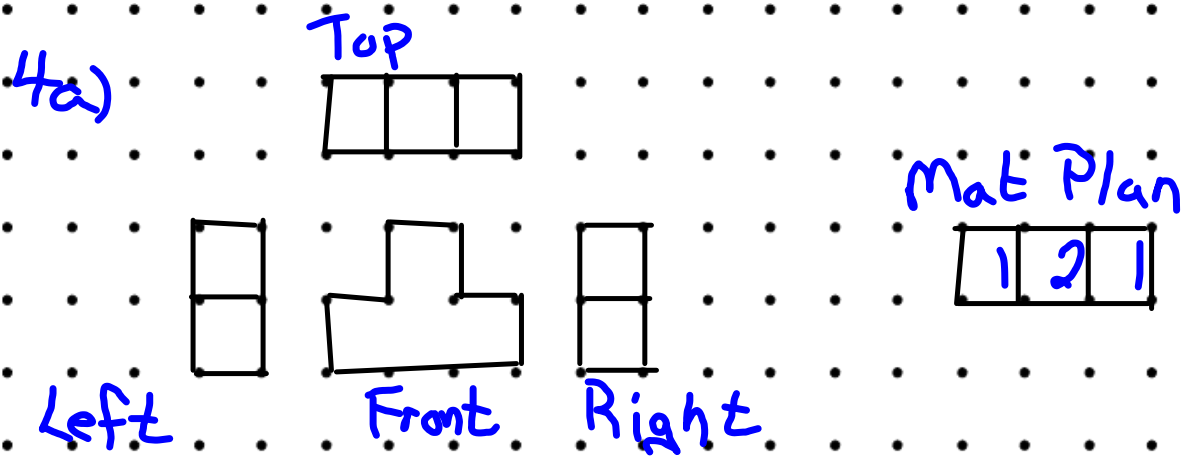


Right

Review for assessment.

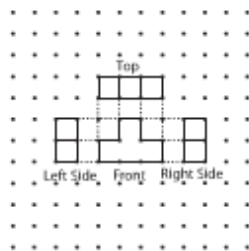
Model  $\underline{4} \times \underline{2}$  using the box method

7 5

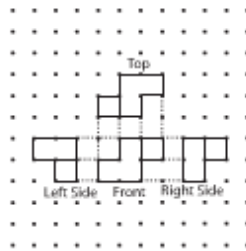


**Sample Solutions**

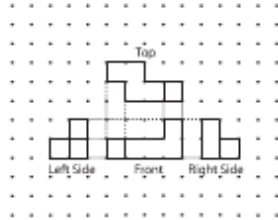
4. a)



b)



c)

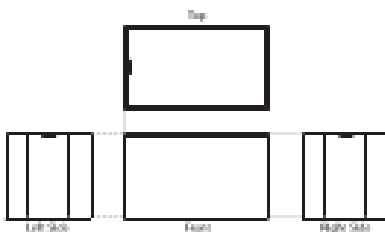


**Sample Solutions**

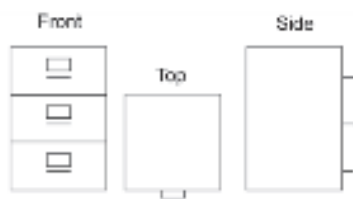
5.

	Top	Front	Back	Left Side	Right Side
A	P	N	N	N	N
B	N	N	N	Q	L
C	Q	Q	L	Q	L
D	J	Q	L	L	Q
E	K	Q	L	M	M

6.



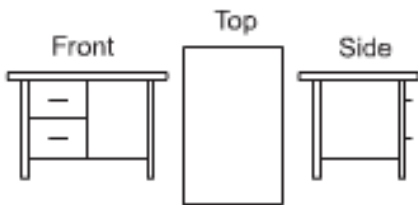
7. a)



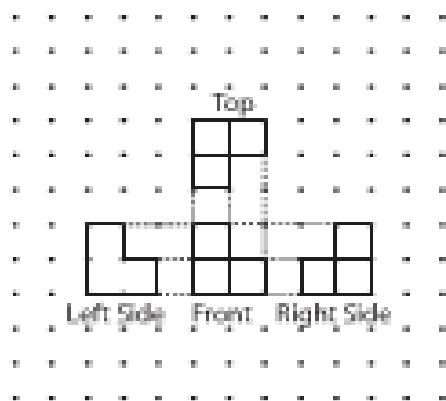
b)



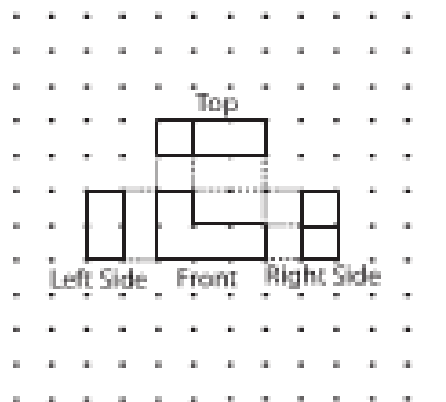
c)



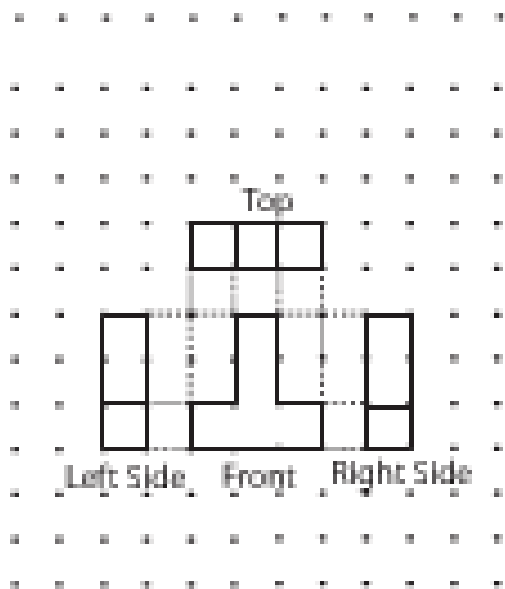
8.



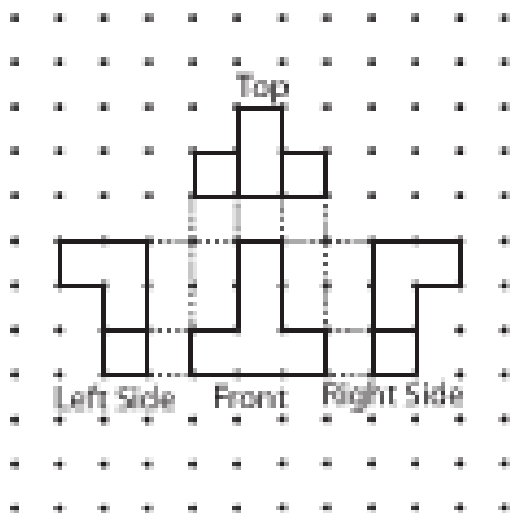
9.



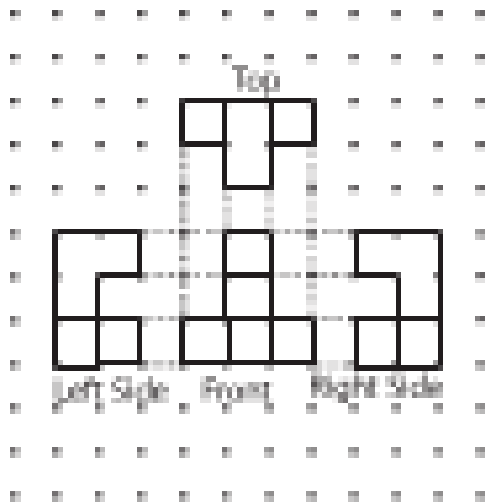
10.



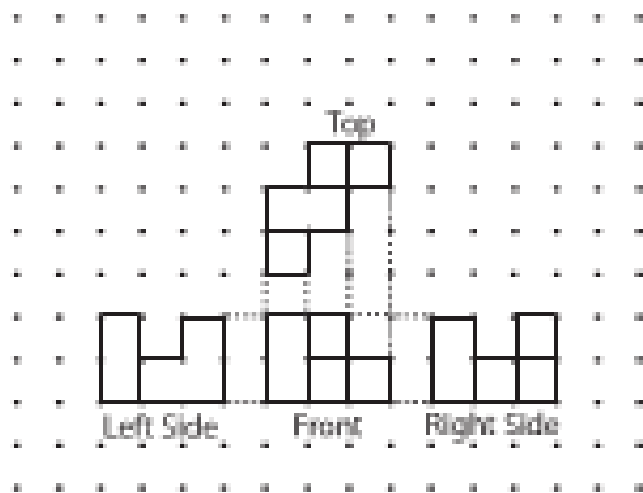
12.



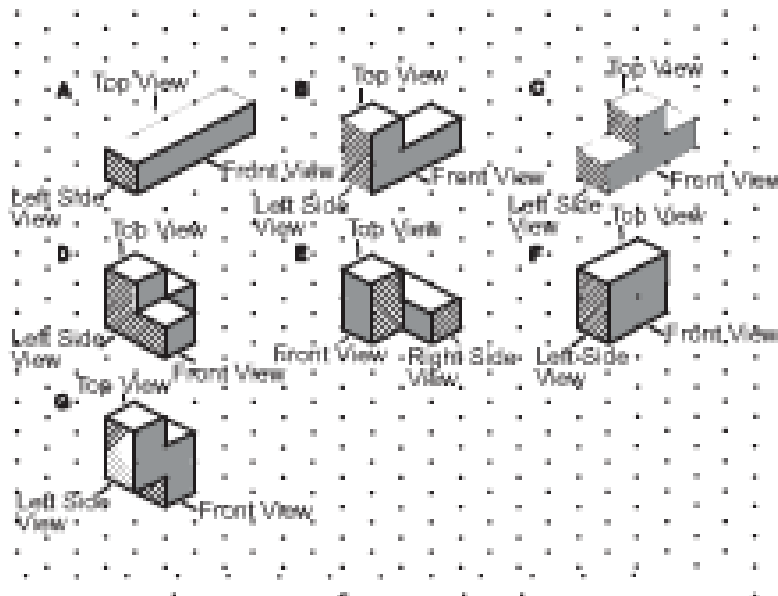
13.



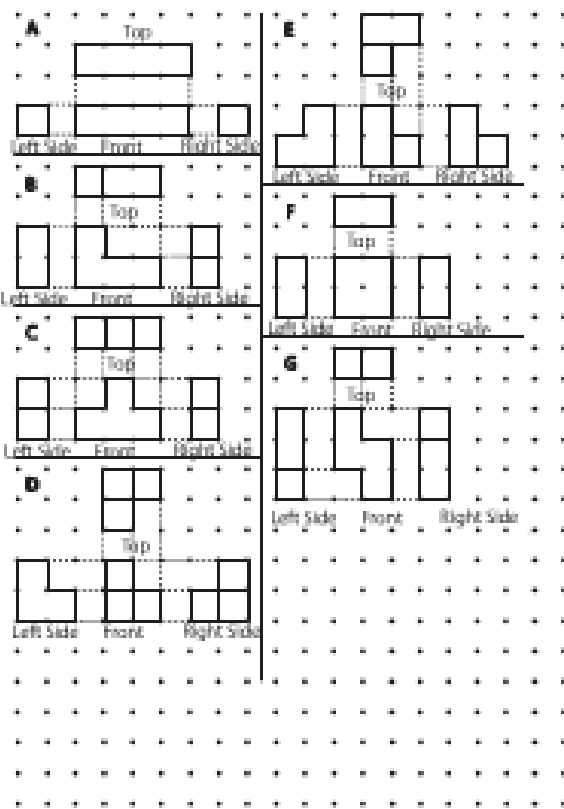
14.



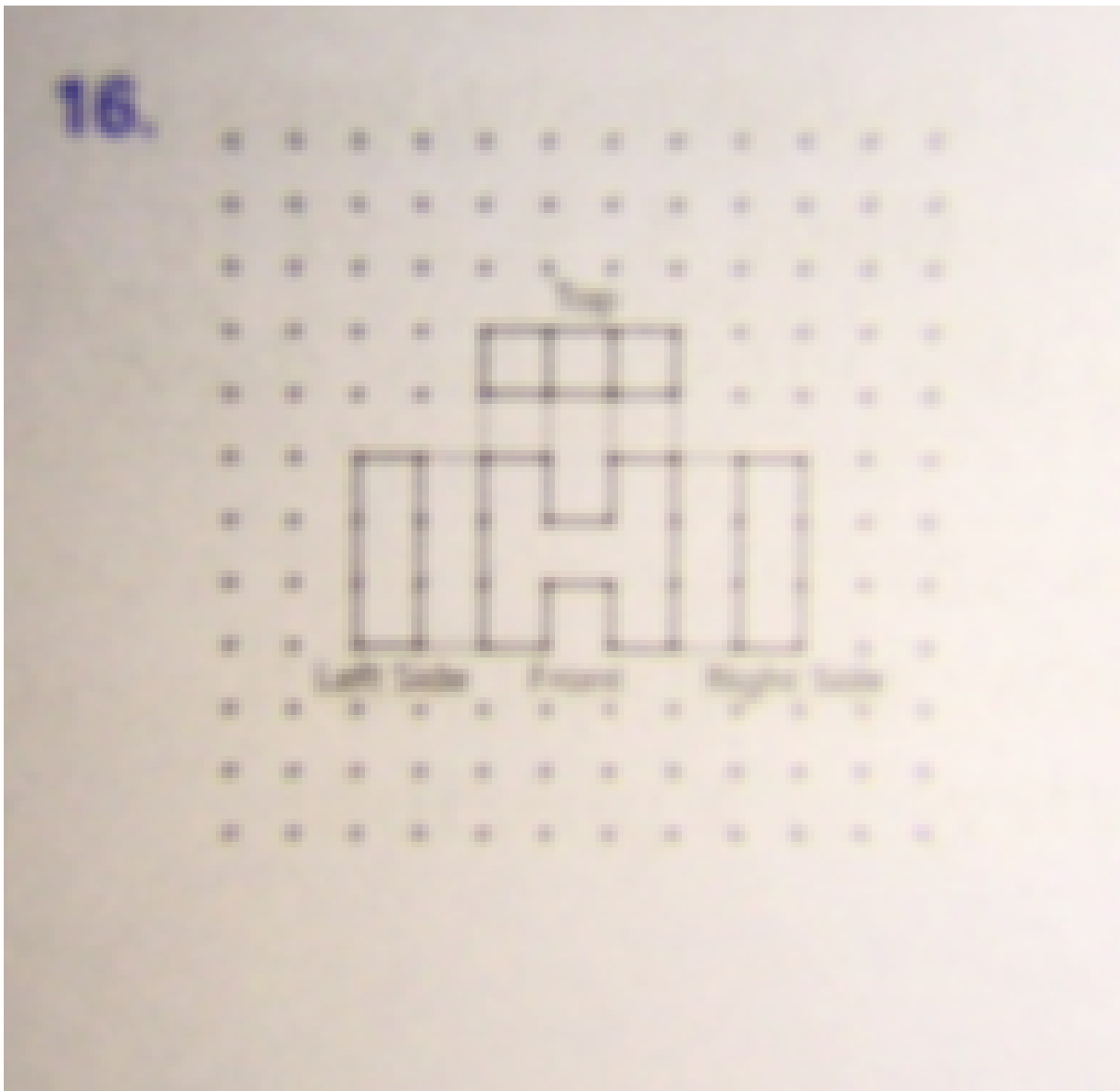
15. There are 7 possible objects.



Here are the views for each object.









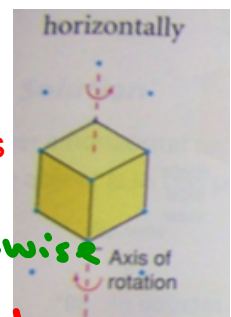
An axis can be rotated horizontally

hold  
top / Bottom

-when an object is rotated horizontally the axis of rotations is vertical. (Can rotate clockwise or counterclockwise)

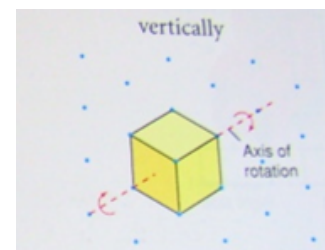
push away → counter clockwise

pull towards yourself → clockwise

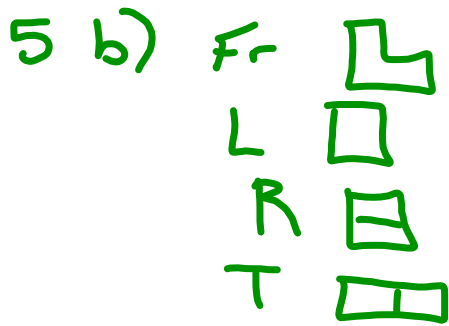
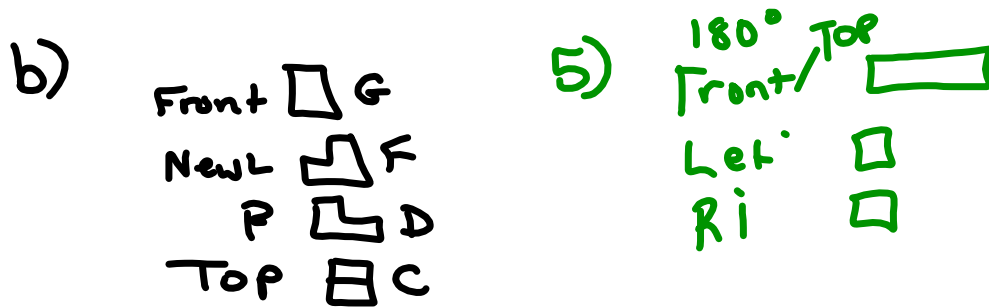


An axis can be rotated vertically

-when an object is rotated vertically the axis of rotations is horizontal. (Can rotate towards or away from you)

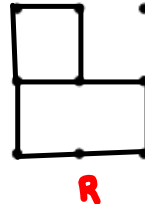
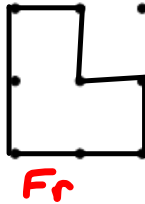
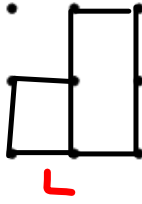
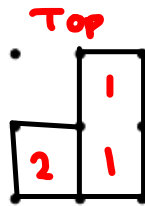
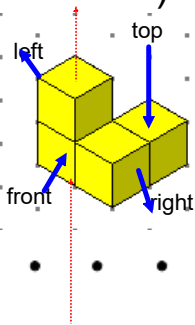


Always build then rotate



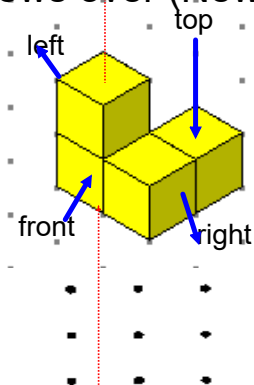
Draw the views (But let's put them in relation to each with the front in the center)

4 blocks



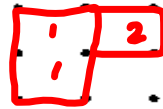
Square Dot Paper Grid Master

Same as last page but let's rotate horizontally  $180^\circ$ . Now draw the views over (New front, new top, new left, new right)

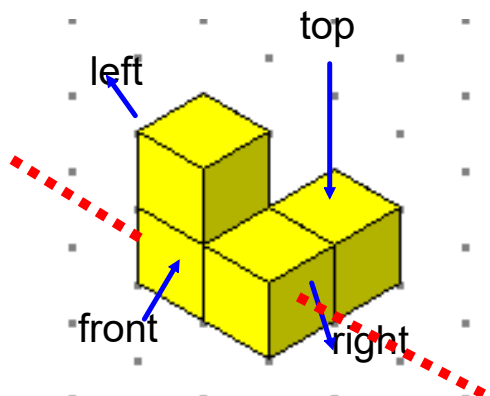


Square Dot Paper Grid Master

New Top/Map



Draw the views after we rotate vertically about the axis  $180^\circ$ .

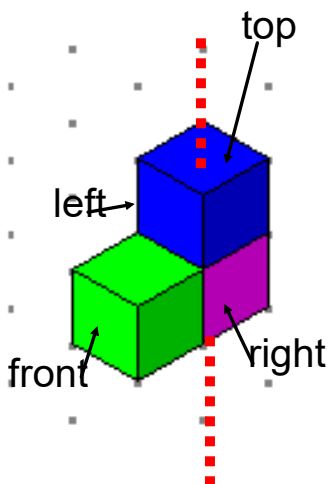


Square Dot Paper Grid Master

New Top / Mat

New L      New fr      New R

Draw the views after we rotate horizontally  $270^\circ$ . (Which is the same as 90 degrees counterclockwise)



Square Dot Paper Grid Master

New Top/Map

New Front

New L

New R

# Class/Homework

- 3a)  $90^\circ$  counter clockwise (  $270^\circ$  clock wise)
- 3 b)  $180^\circ$
- 3c)  $90^\circ$  clockwise (  $270^\circ$  counter clockwise)

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#3, #4, #5, 6, #7, #8, #9



