



# Warm Up

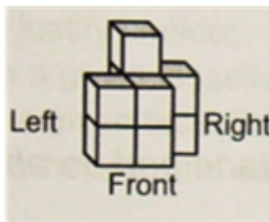
Grade 8

Oct. 14, 2016

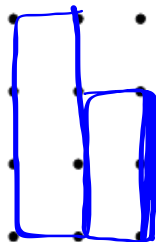


Draw the views of the front, left, right and top.

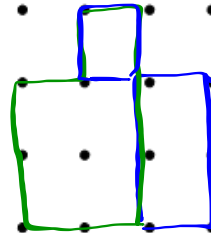
-include mat plan



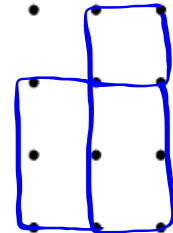
Left



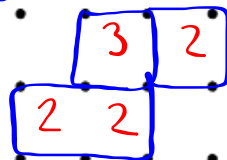
Front



Right



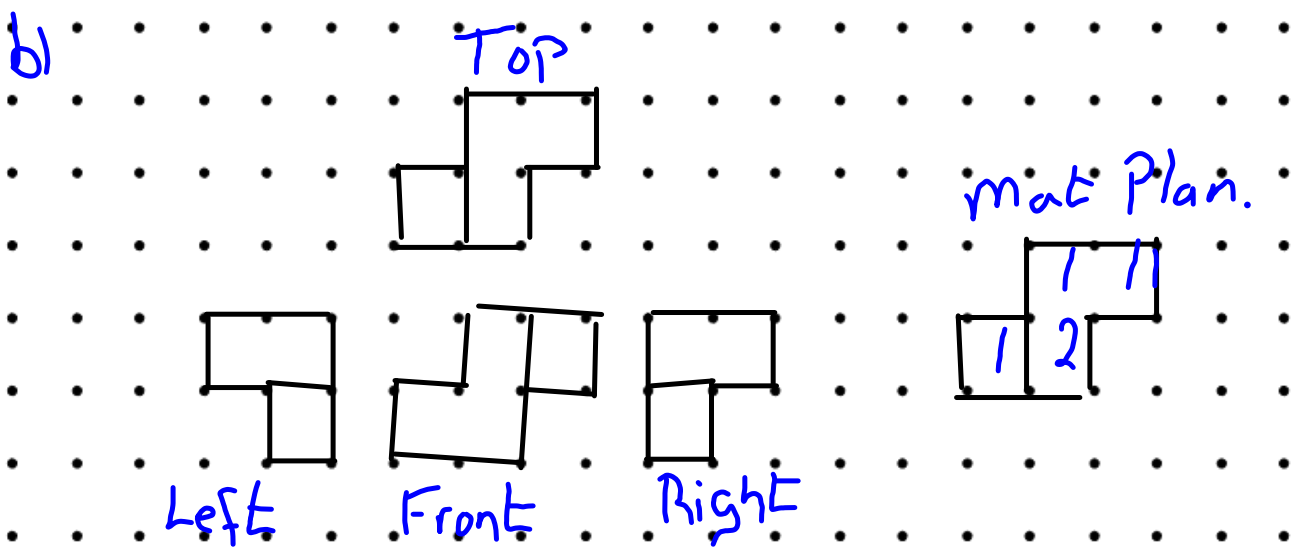
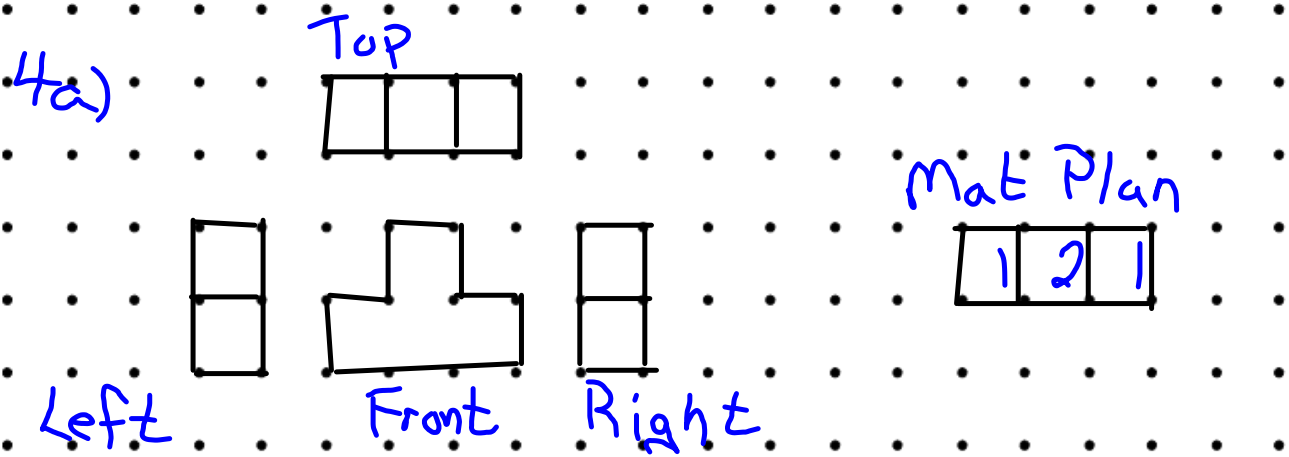
Top



Review for assessment.

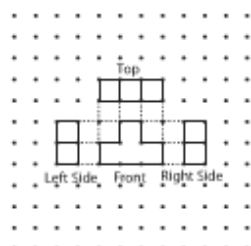
Model  $\underline{4} \times \underline{2}$  using the box method

7 5

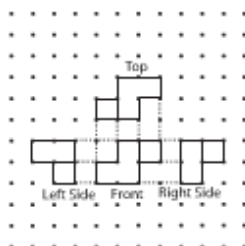


**Sample Solutions**

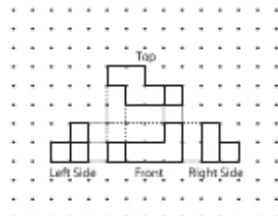
4. a)



b)



c)

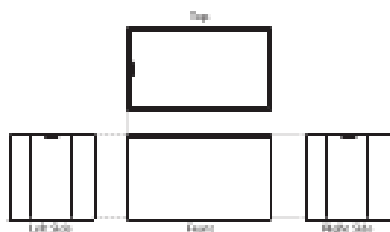


**Sample Solutions**

5.

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

6.



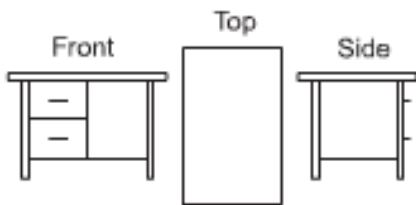
7. a)



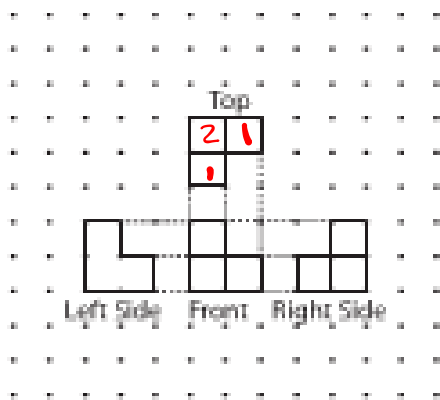
b)



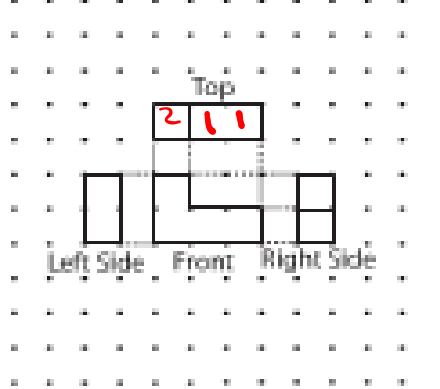
c)



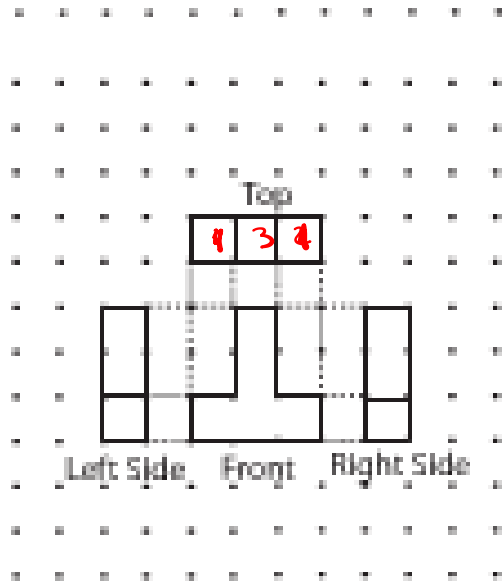
8.



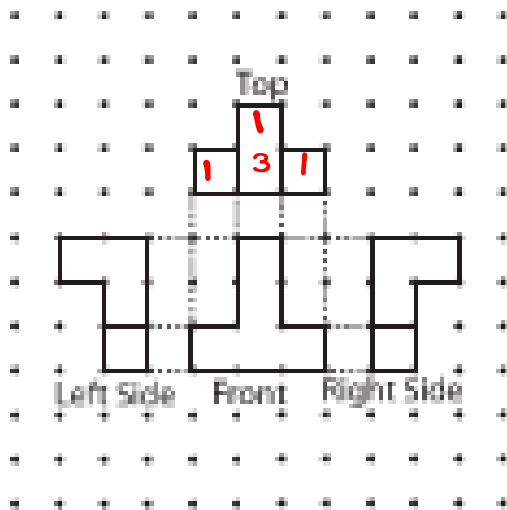
9.



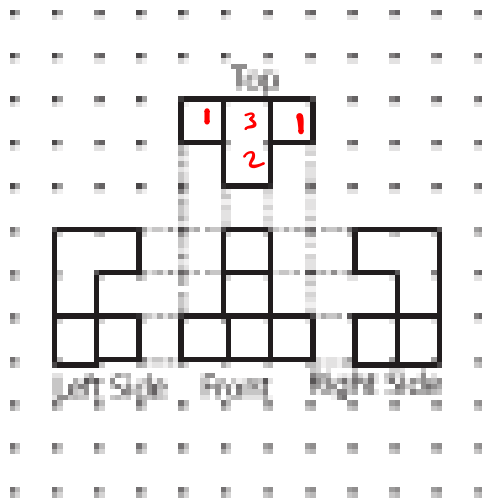
10.



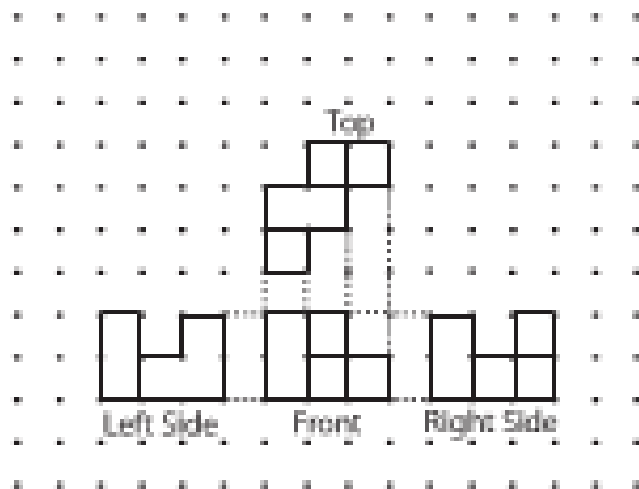
12.



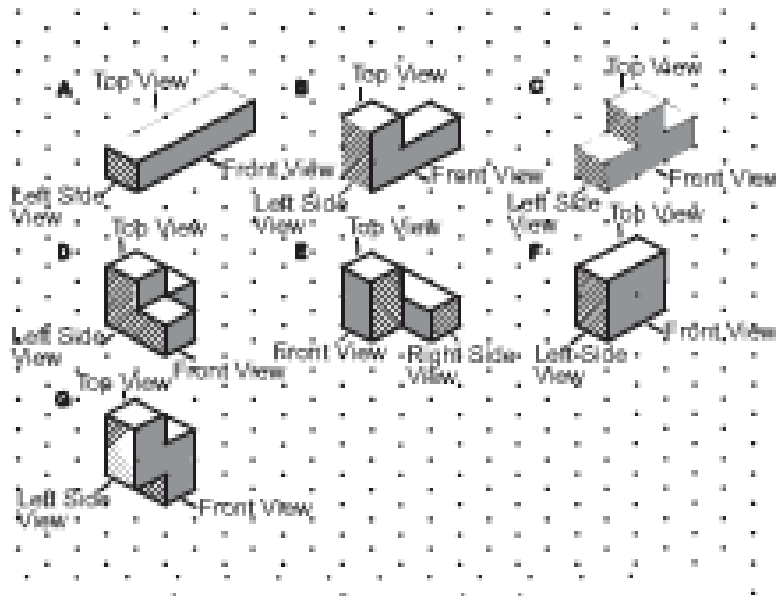
13.



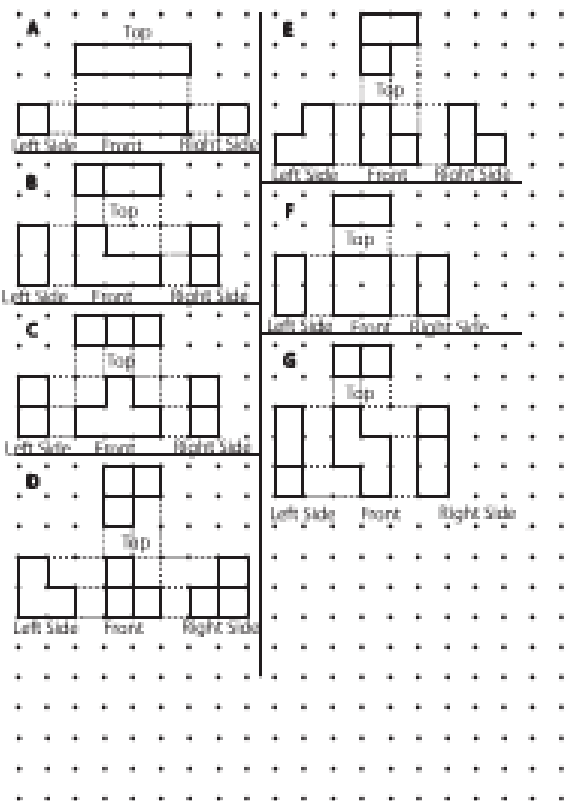
14.



15. There are 7 possible objects.

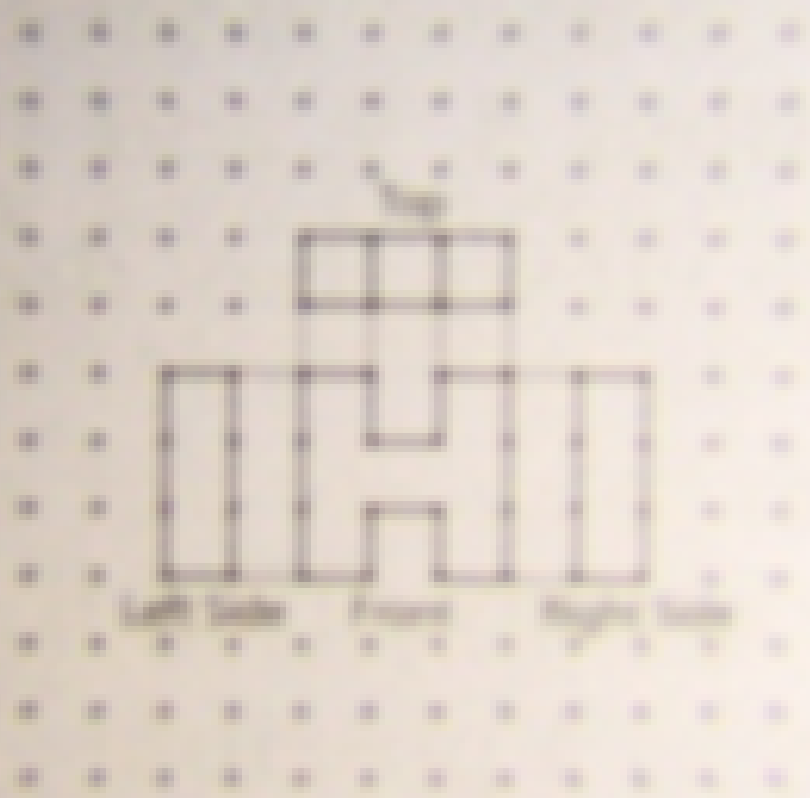


Here are the views for each object.





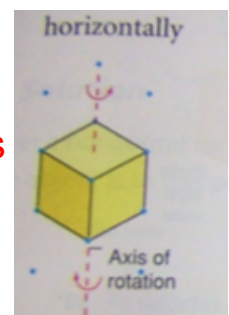
16.





An axis can be rotated horizontally

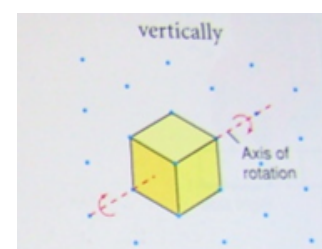
-when an object is rotated horizontally the axis of rotations is vertical. (Can rotate clockwise or counterclockwise)



An axis can be rotated vertically

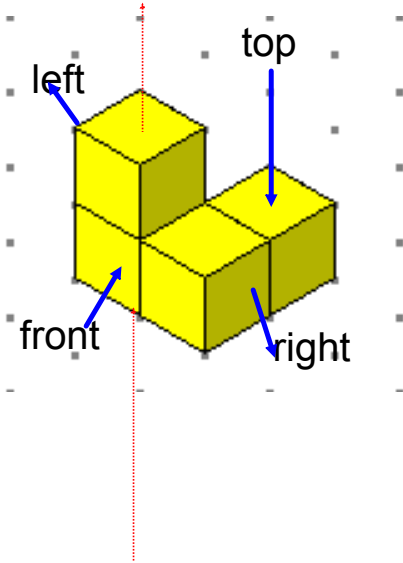
-when an object is rotated vertically the axis of rotations is horizontal. (Can rotate towards or away from you)

forward or away



Always build then rotate

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

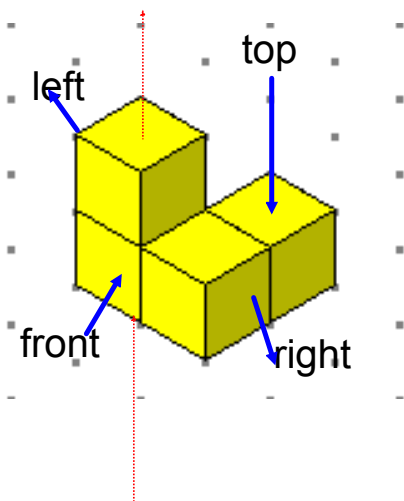


Square Dot Paper Grid Master

Top

Left Front Right

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

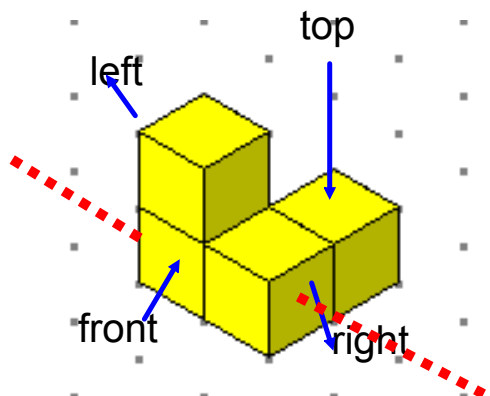


Square Dot Paper Grid Master

Hand-drawn orthographic projections on a square dot grid:

- TOP:** A 2x2 grid of squares. The top-left square contains a vertical line. The top-right square contains the number '2'.
- New Left:** A 2x2 grid of squares. The top-left square is outlined in red.
- New Front:** A 2x2 grid of squares. The top-left square is outlined in red.
- New R:** A 2x2 grid of squares. The top-right square is outlined in red.

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




Square Dot Paper Grid Master

Hand-drawn orthographic views on a square dot grid:

- New top:** A 2x2 grid of squares. The top-left square is labeled '2', and the top-right and bottom-right squares are labeled '1'.
- New left:** A 2x2 grid of squares. The left column has two squares, and the right column has one square at the bottom.
- New front:** A 2x2 grid of squares. The left column has two squares, and the right column has one square at the bottom.
- New right:** A 2x2 grid of squares. The top row has two squares, and the bottom-right square is labeled '1'.

# Class/Homework

Front 3) 

Page 444 - 446

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

*b iii* } *bi*

3a)



Rotate  $90^\circ$  counter clockwise

or  
Rotate  $270^\circ$  clockwise

3b)



Rotate  $180^\circ$  clockwise

