# Warm Up
## Grade 8
Oct. 8, 2019

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

-Include mat plan

Top / Mat

3	2
2	2
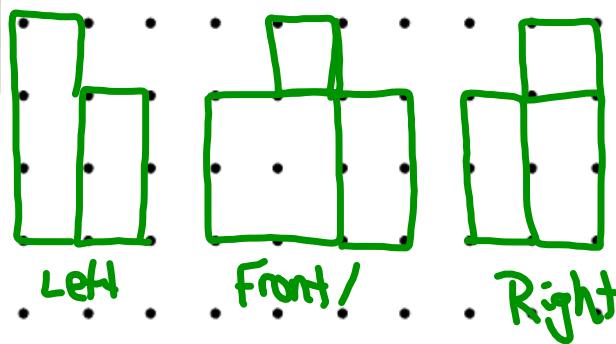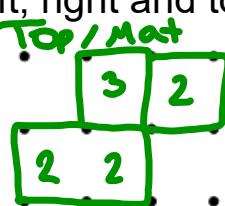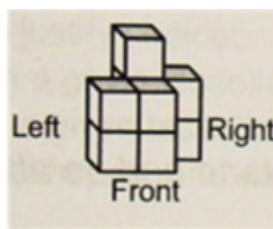
Left　　Front /　　Right

Review for assessment

Model <u>4</u> x <u>2</u> using the box method

　　7　　5

4a)

Top

Left   Front   Right

Mat Plan

1	2	1
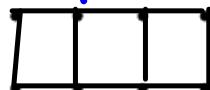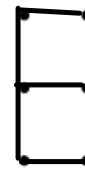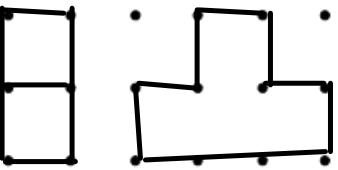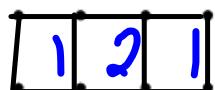
b)

Top

Left   Front   Right

Mat Plan.

|	1	1
1	2	
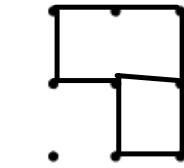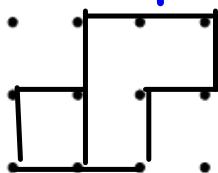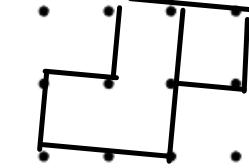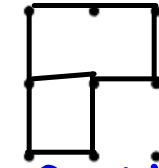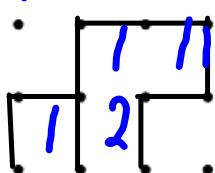
Sample Solutions

4. a)
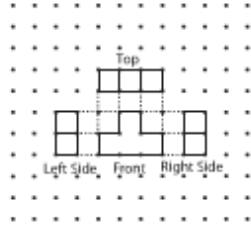
b)
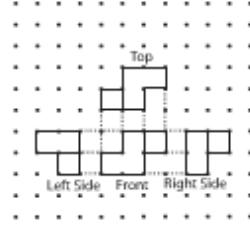
c)
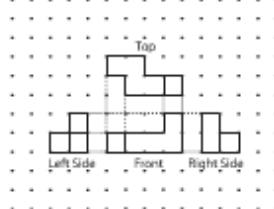
Sample Solutions

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)

Front Side Top

b)

Front Top Side

c)

Top Front Side

8.

Top

Left Side   Front   Right Side

9.

Top

Left Side   Front   Right Side

10.

Top

Left Side   Front   Right Side

12.

Top

Left Side   Front   Right Side

13.

Top

Left Side   Front   Right Side

14.

Top

Left Side   Front   Right Side
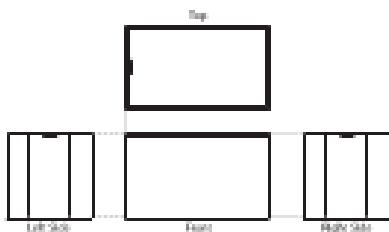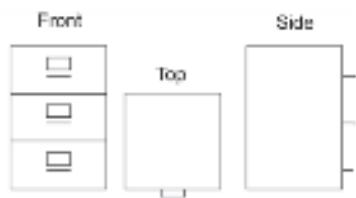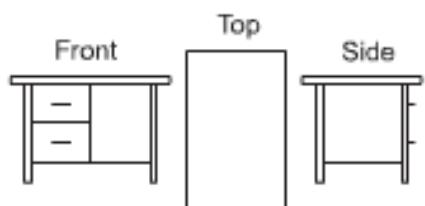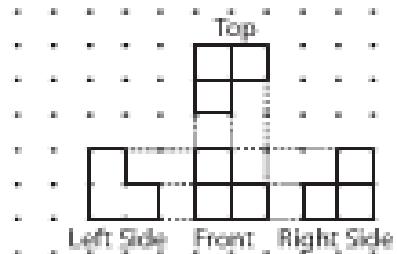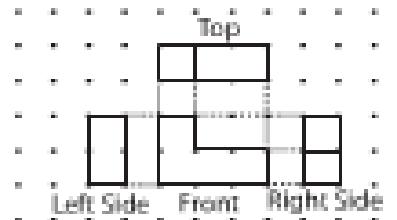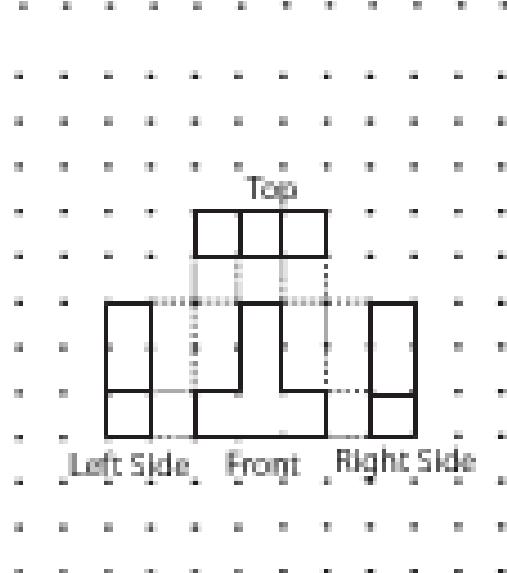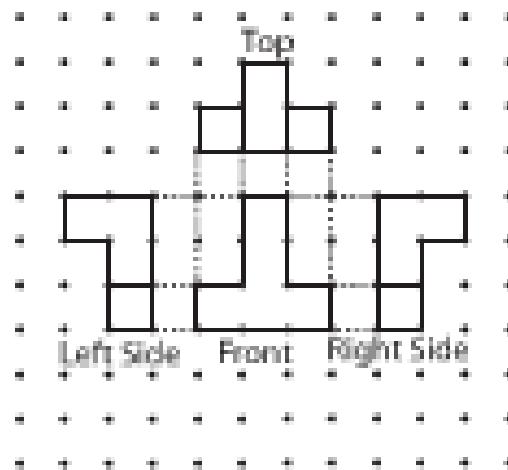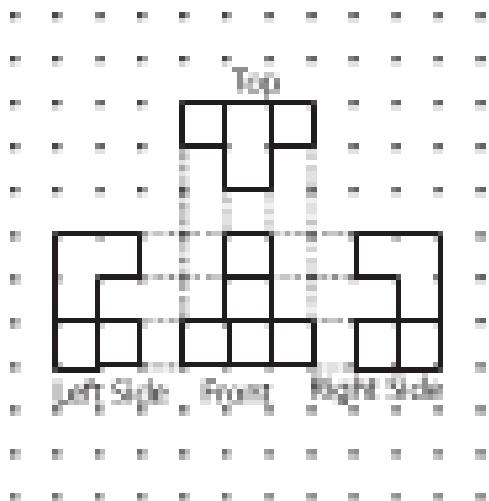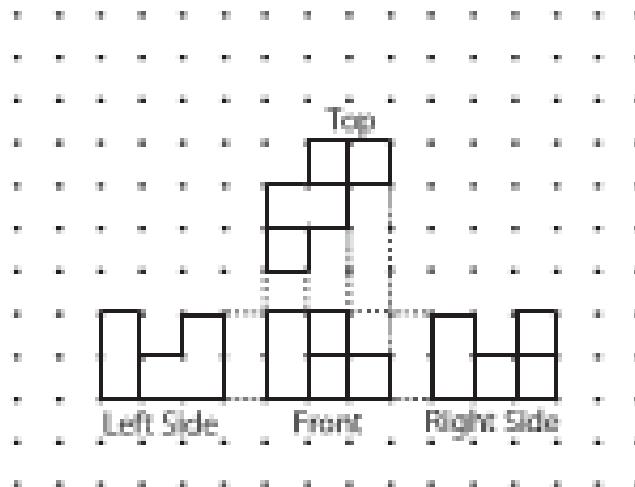
15. There are 7 possible objects.
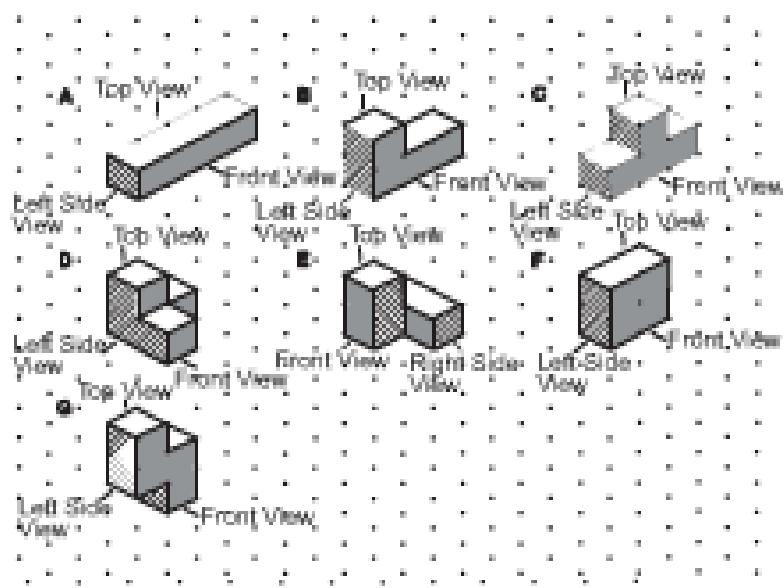
Here are the views for each object.

16.

Left Side   Front   Right Side
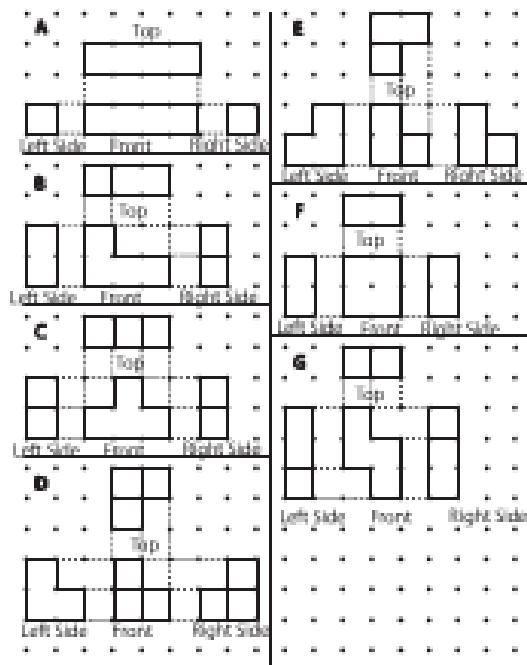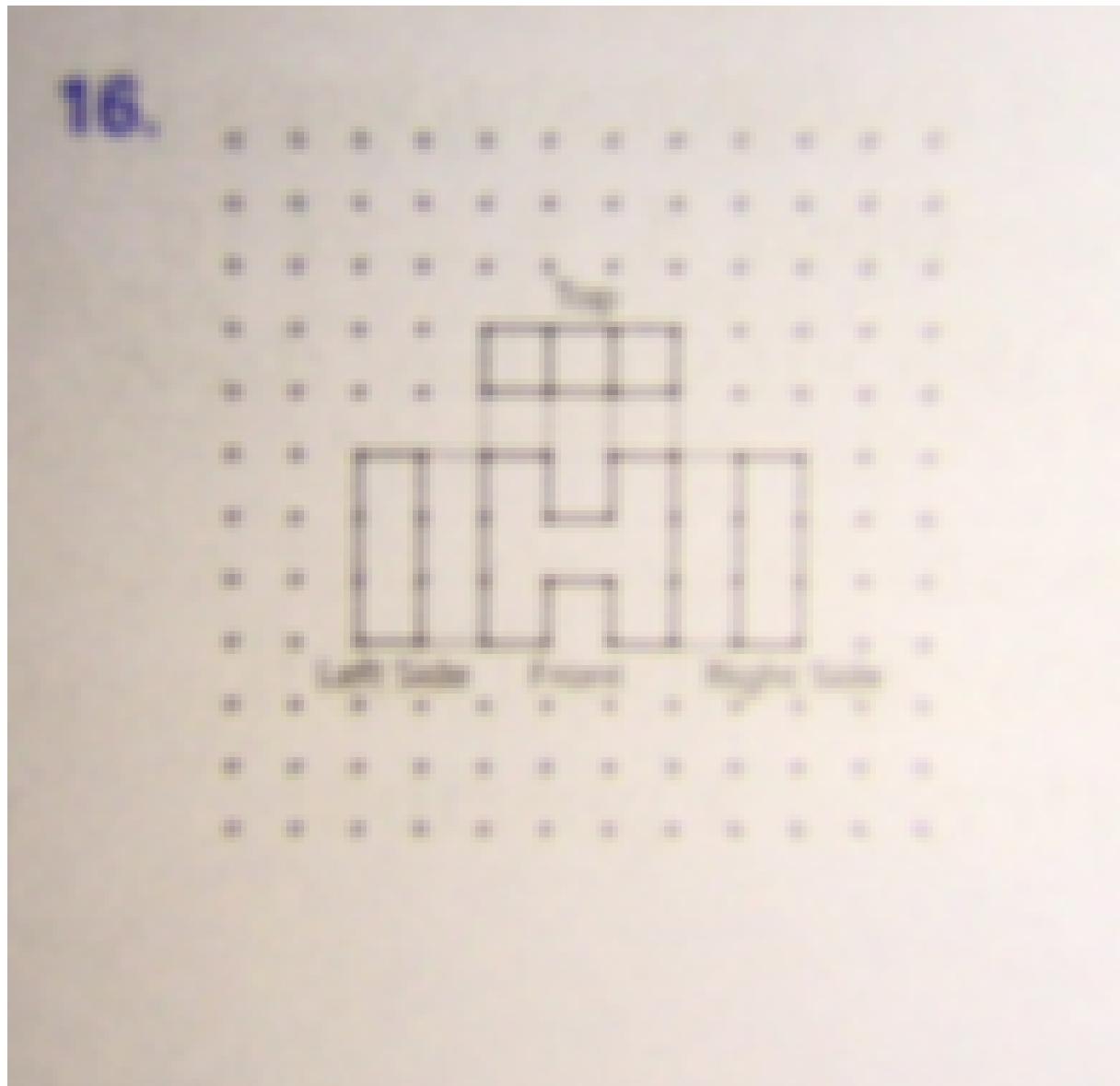
An axis can be rotated **horizontally**

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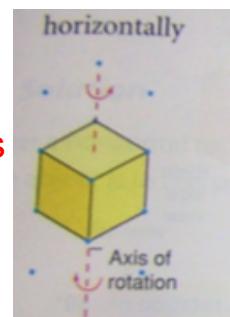
An axis can be rotated **vertically**

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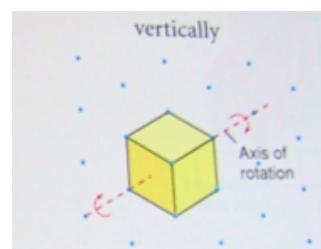
Always build then rotate

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

top

left

front

right

Square Dot Paper Grid Master

Top/Mat

2

Left   Front   Right
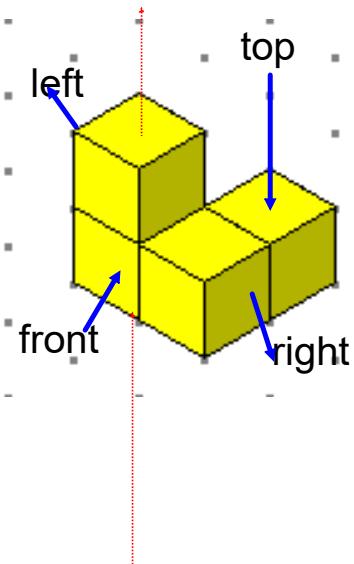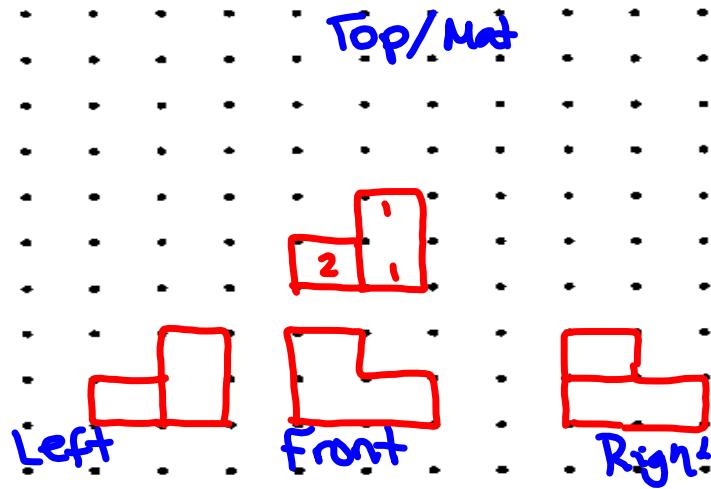
Same as last page but let's rotate horizontally 180° Now draw the views over (New front, new top, new left, new right)

top
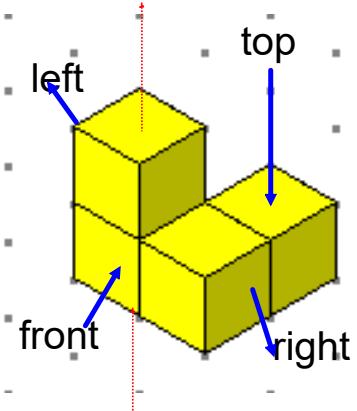
left

front

right

Square Dot Paper Grid Master

New
Top / Mat

| 1 | | 1 |
| 2 | |

New
left

Newfront

New
Right
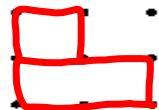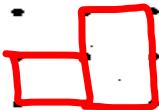
Draw the views after we rotate vertically about the axis 180°.

top

left

front

right

Square Dot Paper Grid Master
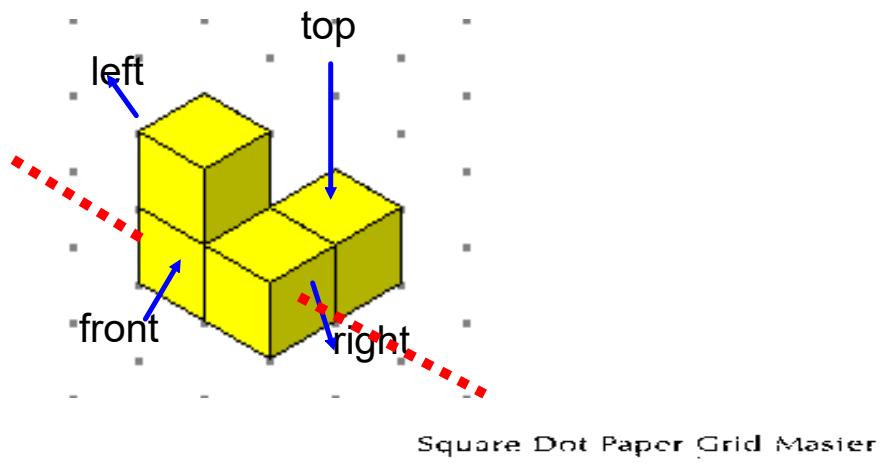
Top / Mat

New
left
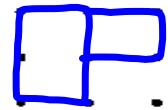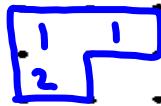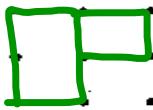
New front

New Right

Draw the views after we rotate horizontally 270º. (Which is the same as 90 degrees counterclockwise)

top

left

front

right

clockwise

left

Counter

Right

Square Dot Paper Grid Master

Now Top/Mat

2 1

New L

New front

New R

Class/Homework

Page 444 - 446

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

3 a) 270° clockwise or 90° counter

b) 180° Clockwise

c) 90° clockwise

Front

Top

Right

left

front