Warm Up

Grade 8

Oct. 9, 2018

Draw the views of the front, left, right and top. Top/Mat

-include mat plan

Top/Mat

3	2
2	2

Left   Front   Right
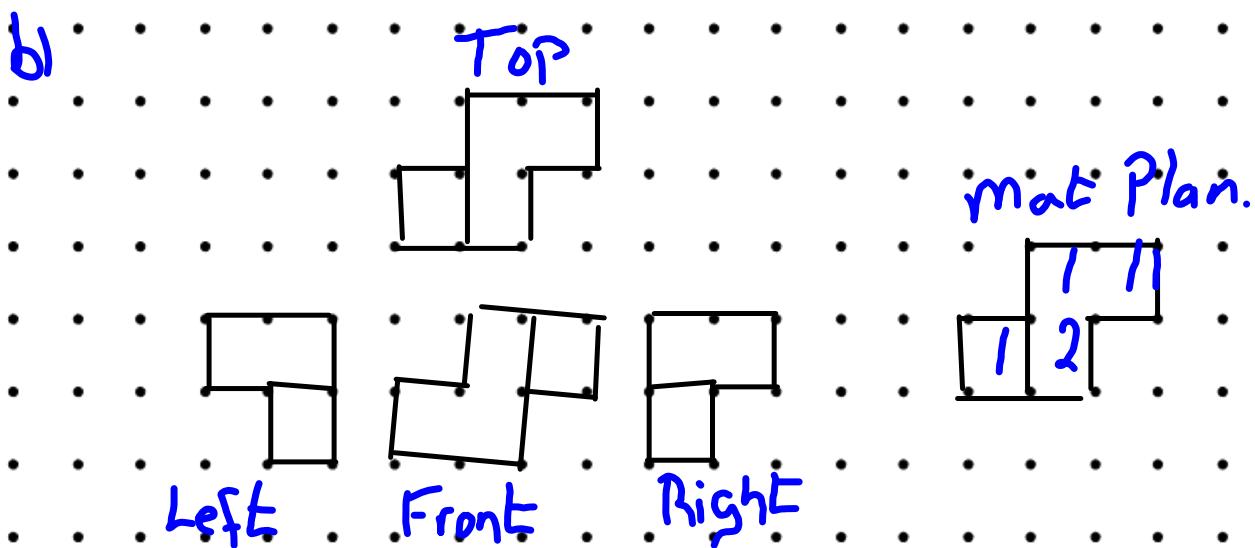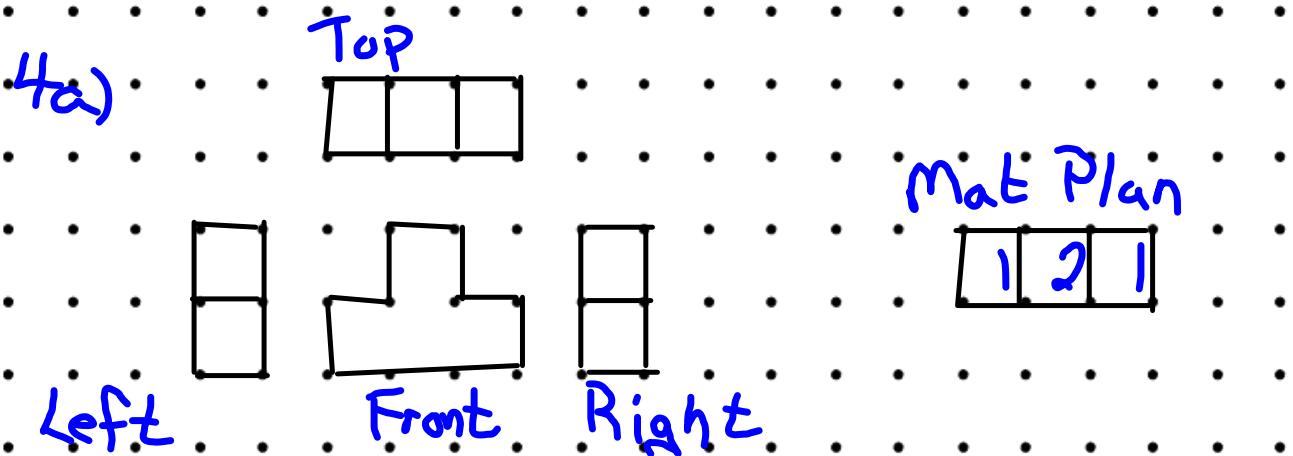
Review for assessment

Model <u>48</u> x <u>29</u> using the box method

	40	8
20	40x20 = 800	20x8 = 160
9	9x40 = 360	9x8 = 72

```
     800
     160
     360
  +   72
  ------
    1392
```

$48 \times 29 = 1392$

1

4a)

Top

Left   Front   Right

Mat Plan

| 1 | 2 | 1 |

b)

Top

Left   Front   Right

Mat Plan.
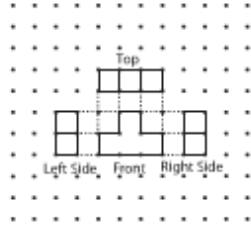
| 1 | 1 |
| 1 | 2 |
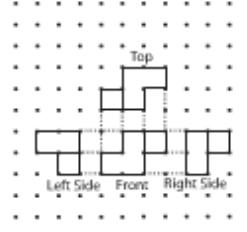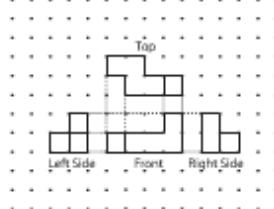
Sample Solutions

4. a)

b)
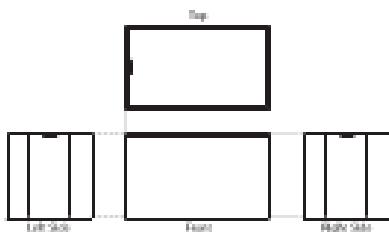
c)

Sample Solutions
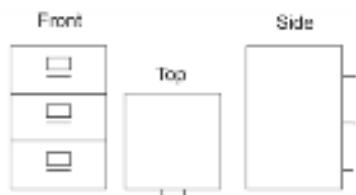
5.

	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   Top   Side

b)

Front   Top   Side

c)

Front   Top   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
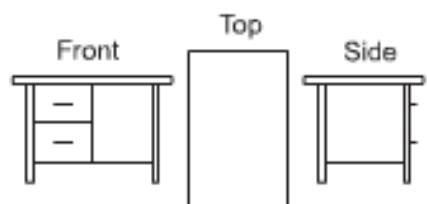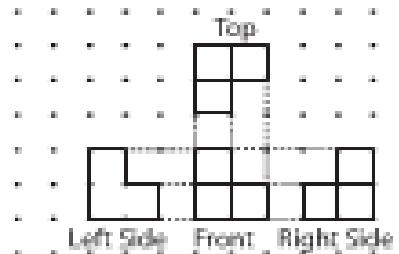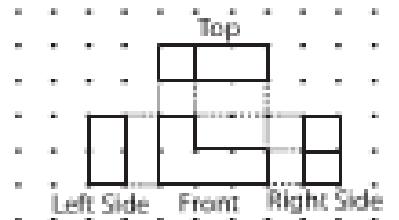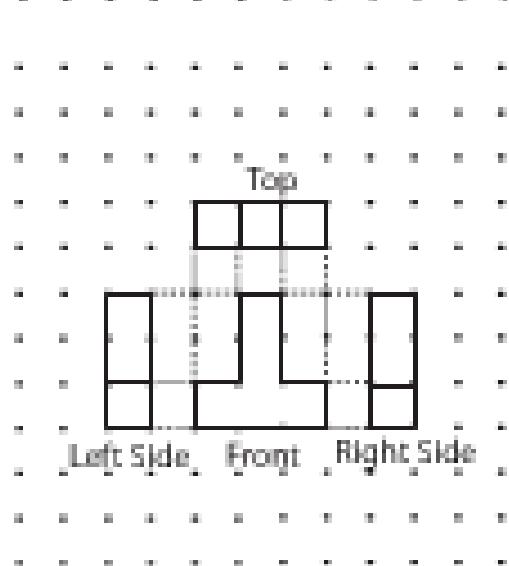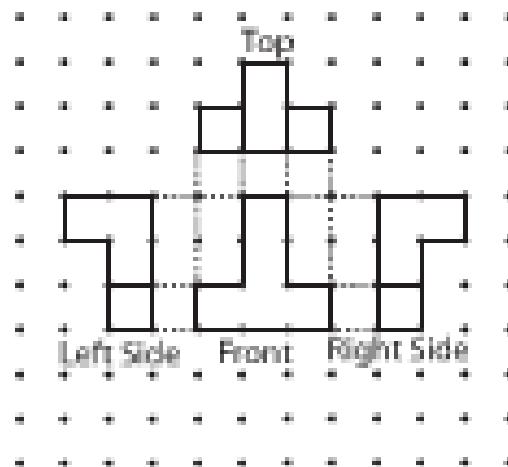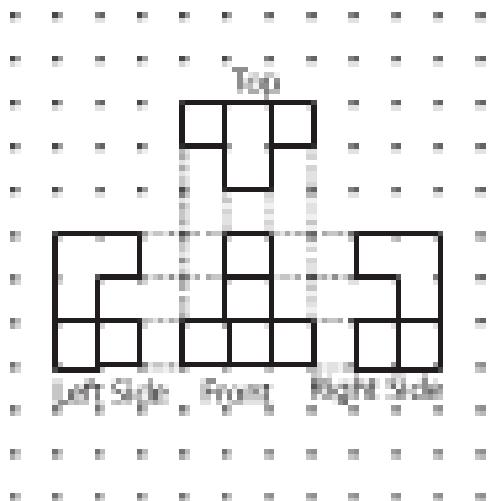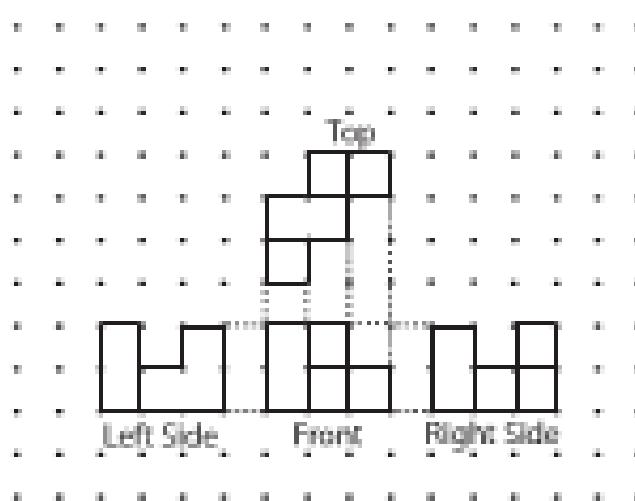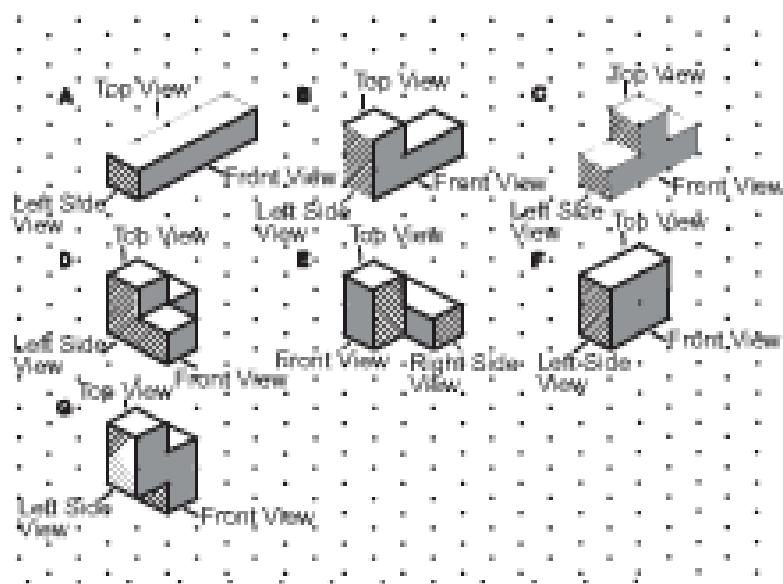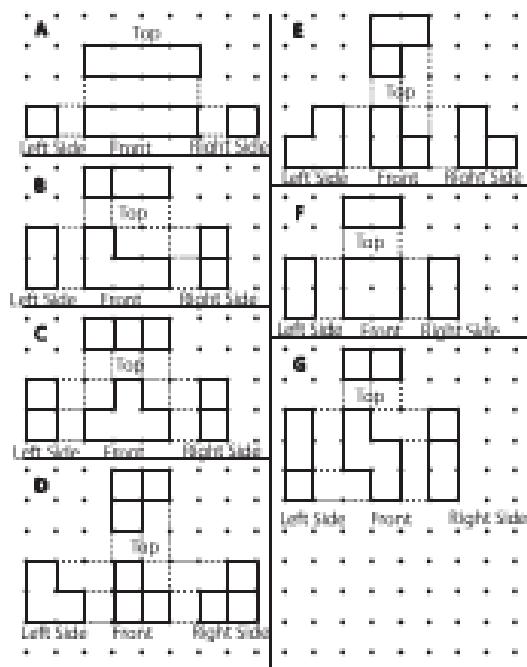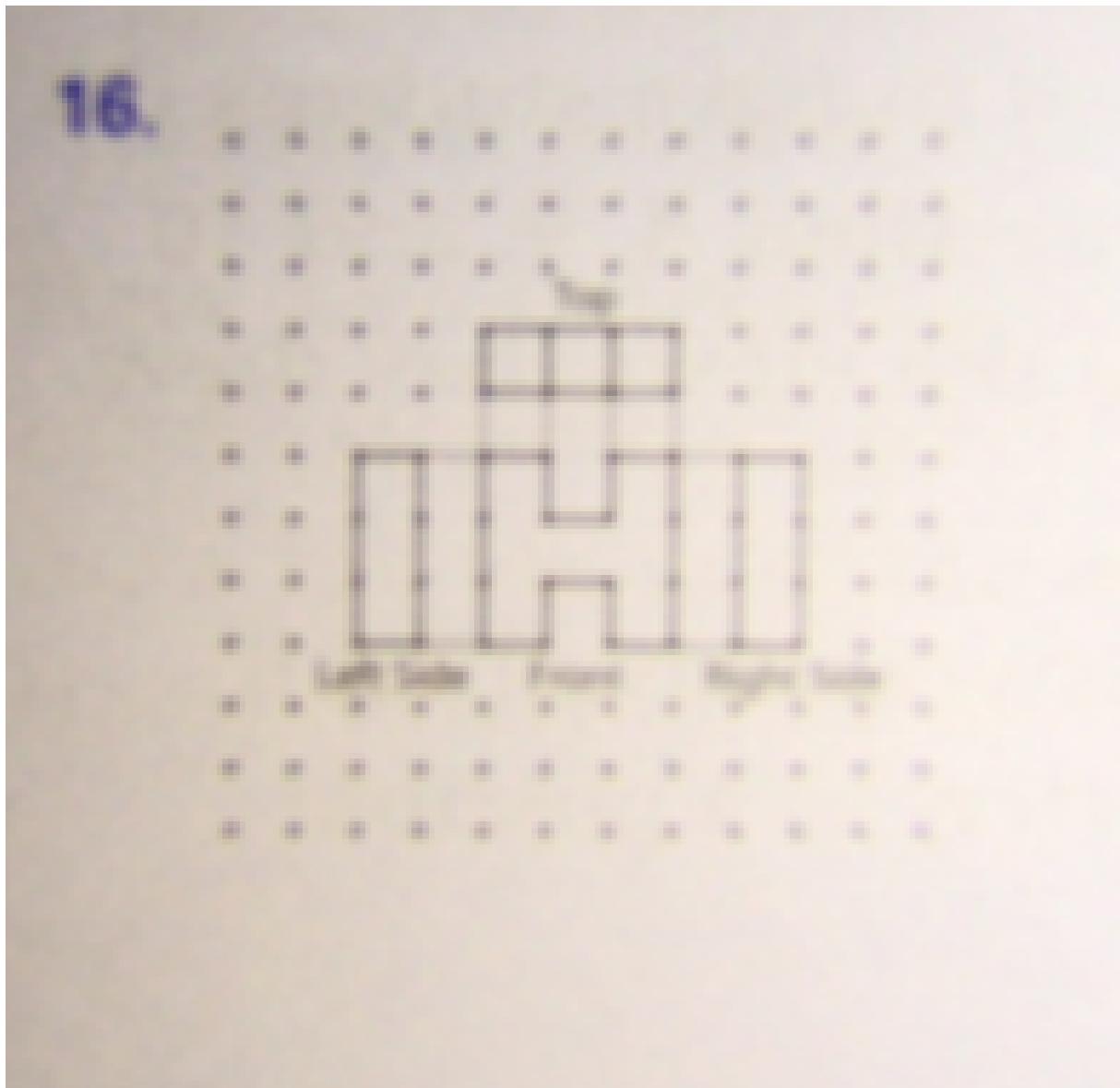
15. There are 7 possible objects.


Here are the views for each object.

16.


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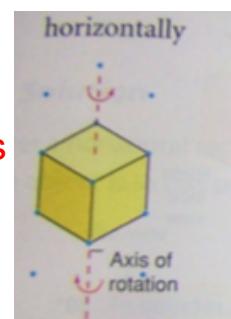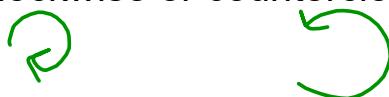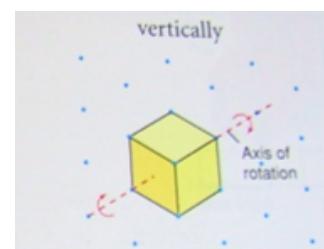
An axis can be rotated **horizontally**

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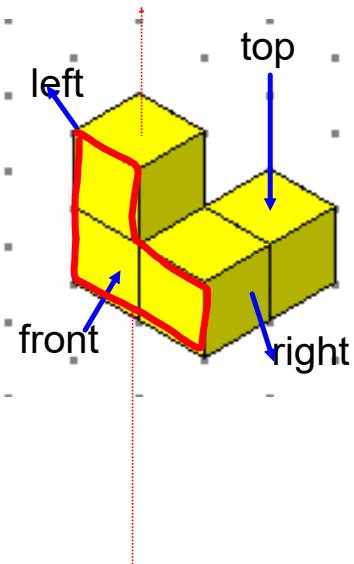
An axis can be rotated **vertically**

-when an object is rotated vertically the axis of rotations is horizontal. (Can rotate towards or away from you)
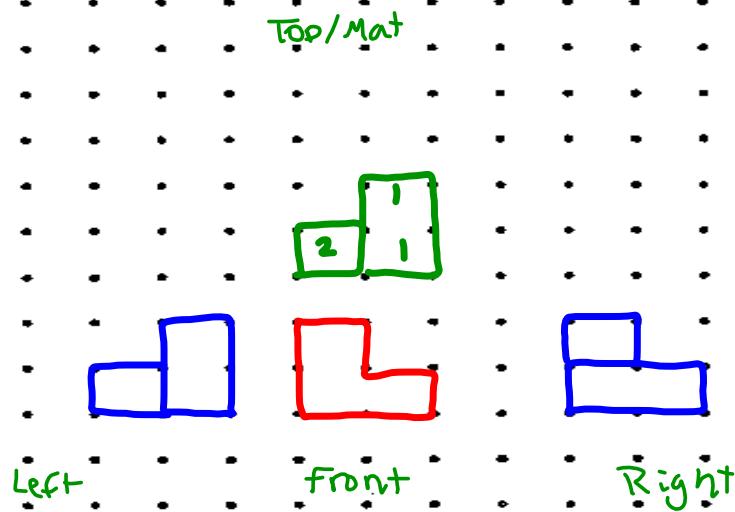
Always build then rotate
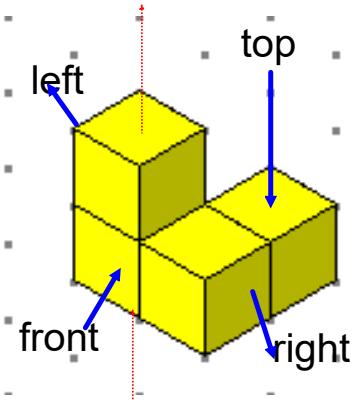
Draw the views (But let's put them in relation to each with the front in the center)


Square Dot Paper Grid Master

Top/Mat

2	1
	1

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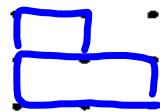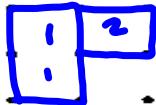
Same as last page but let's rotate horizontally 180° Now draw the views over (New front, new top, new left, new right)
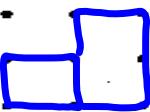

Square Dot Paper Grid Master

New Top/Mat
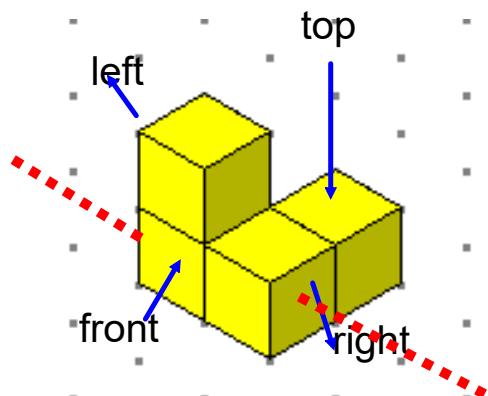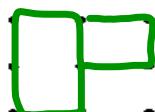
New L　　New front　　New R

Draw the views after we rotate vertically about the axis 180º.
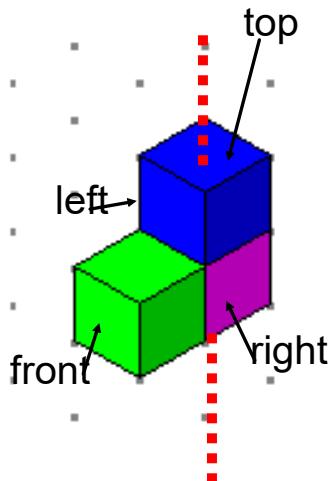
Square Dot Paper Grid Master
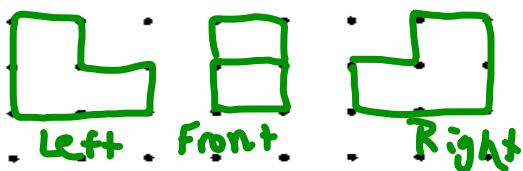
Top / Mat

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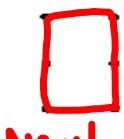
Draw the views after we rotate horizontally 270°. (Which is the same as 90 degrees counterclockwise)

top
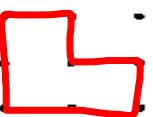
left

front   right

Square Dot Paper Grid Master

Original

Top/Mat

| 2 |
| 1 |
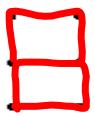
Left   Front   Right

After 270° Clockwise

New Top/Mat

| 2 | 1 |

New L   New R

New front

Class/Homework

Page 444 - 446

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

Front

Top

Right

left

front