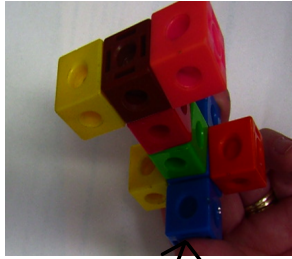**Warm Up**

Grade 8

Oct. 9, 2019

TEST Tuesday (Oct. 14)

Part 1

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

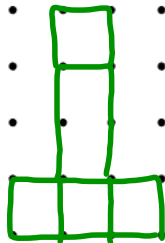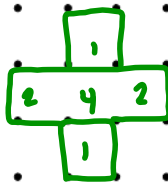-include mat plan (Use blocks if you need it)

front

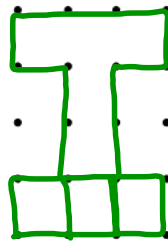Part 2) Rotate the object 90° clockwise and redraw the views and mat

Warm Up solutions

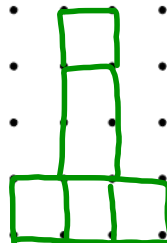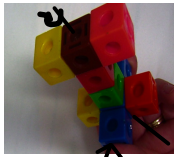|	1	
2	4	2
	1	

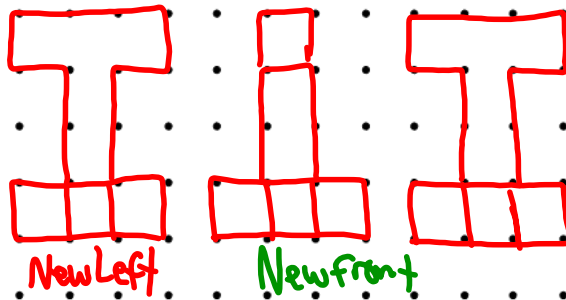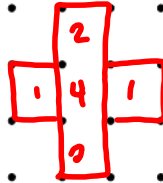Left   Front   Right

Part 2) Rotate the object 90° clockwise and redraw the views and mat

front

New Top/Mat

New Left   New front

Page 444 - 446

#3, #4a,b, #5, #7b, #8a,b, #9b
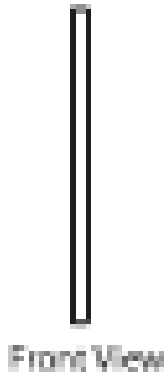
HW from Wed

Discuss the Ideas

1. Yes, when an object is rotated vertically 90° toward you, it will end up in the same position as when the same object is rotated vertically 270° away from you. So, the views of the object after each rotation will be the same.

2. I think the object must be a cube because no matter how I rotate a cube, its views are always the same.

6)

3. a) The object was rotated horizontally 90° counterclockwise, or 270° clockwise.
   b) The object was rotated horizontally 180°.
   c) The object was rotated horizontally 90° clockwise, or 270° counterclockwise.

4. a) Front view: B; Top view: E; Right side view: A; Left side view: A

b) Front view: G; Top view: C; Right side view: D; Left side view: F
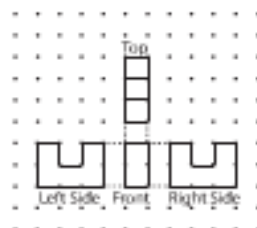
5. The object is symmetrical.

6.

Page 444 - 446

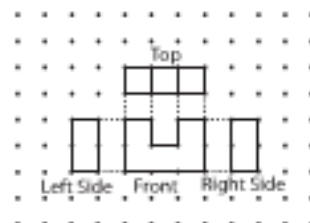#3, #4a,b, #5, #7b, #8a,b, #9b

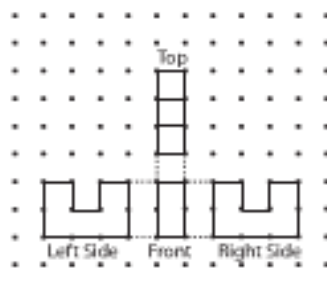Front View

7. a) Predictions may vary.
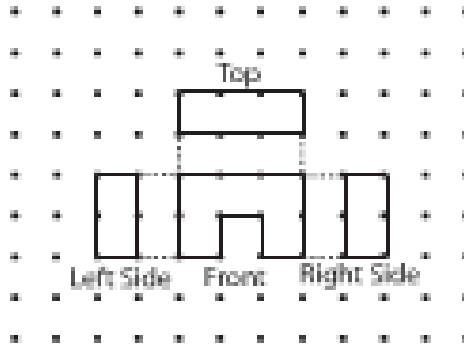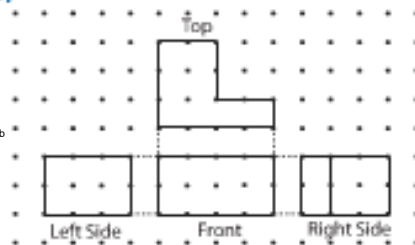
b) i)

Page 444 - 446

#3, #4a,b, #5, #7b, #8a,b, #9b

Top

Left Side　Front　Right Side

ii)

Top

Left Side　Front　Right Side

iii)

Top

Left Side　Front　Right Side

8. a)

Top

Left Side   Front   Right Side

Page 444 - 446

#3, #4a,b, #5, #7b, #8a,b, #9b

b)

Top

Left Side   Front   Right Side
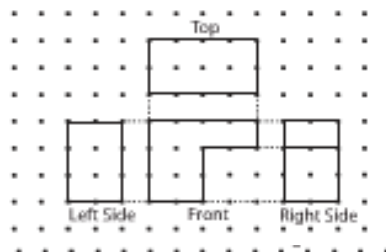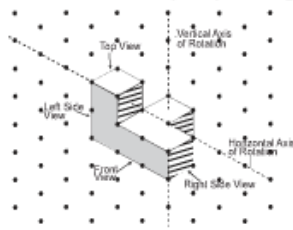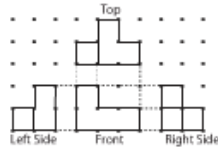
9. a) Predictions may vary.

b) i)

Top

Left Side   Front   Right Side

Page 444 - 446

#3, #4a,b, #5, #7b, #8a,b, #9b

ii)

Top

Left Side   Front   Right Side

iii)

Top

Left Side   Front   Right Side
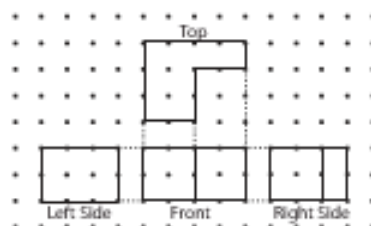
10. Answers will vary depending on object built.

a)

Top

Left Side   Front   Right Side

b) I chose a horizontal rotation of 90° clockwise.

Top

Left Side   Front   Right Side
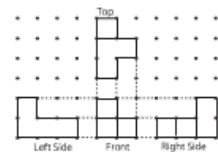
c) A horizontal rotation of 270° counterclockwise
d) I chose a vertical rotation of 90° toward me.
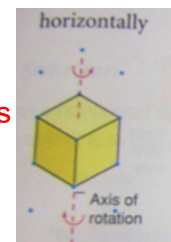

Top

Left Side   Front   Right Side
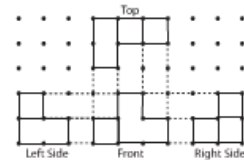
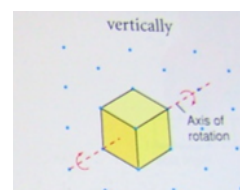**e)** A vertical rotation of 270° away from me

Remember

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)
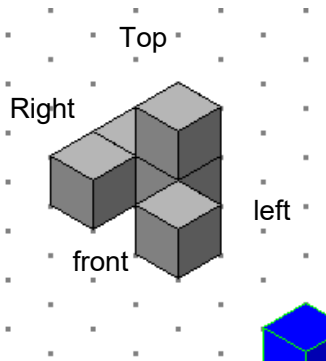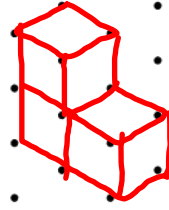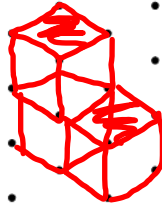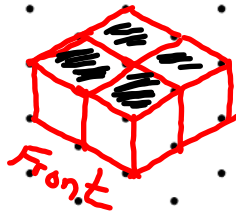

Always build then rotate

Class/Homework

Worksheet 8.2 Drawing rotated views

TEST Tuesday Oct. 15

Worksheet 8.2 Solutions

Front

Top

Right

left

front
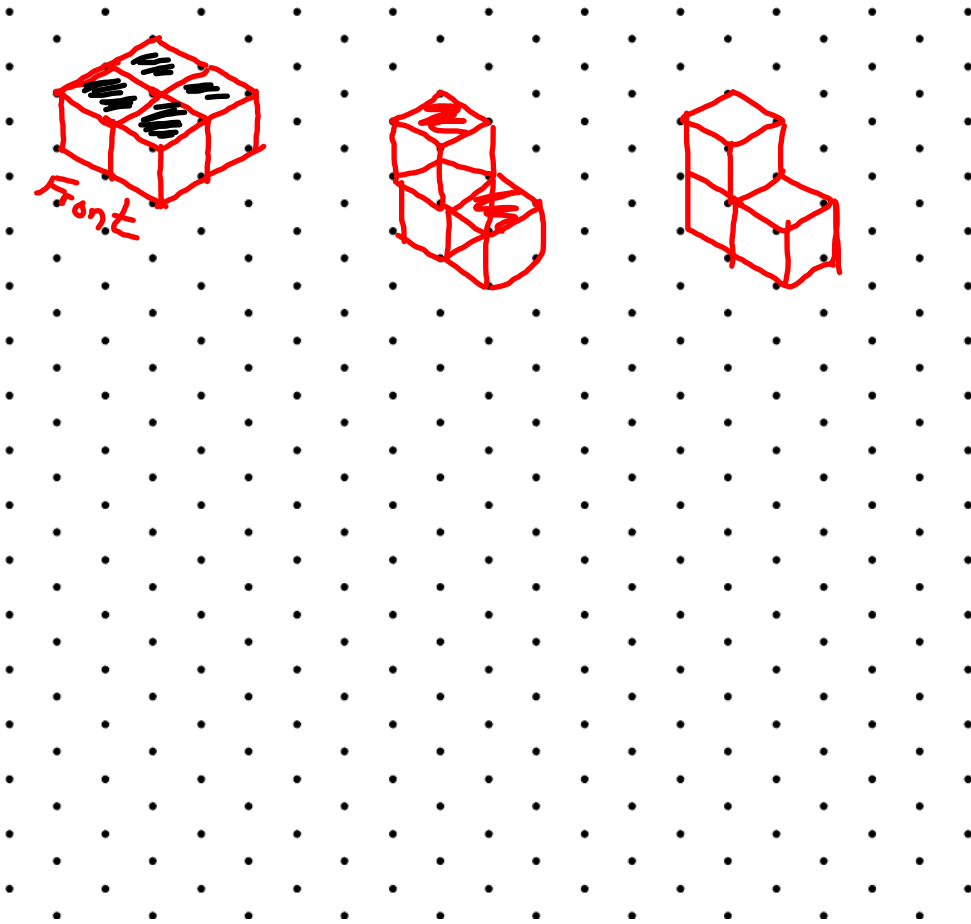
Attachments

Grade 8 Unit 8 Geom Extra Practice 1 & 2 Answers.pdf

Grade 8 Unit 8 Iso Views of rotated object Extra Practice.pdf