

<http://illuminations.nctm.org/ActivityDetail.aspx?ID=125>



Warm Up

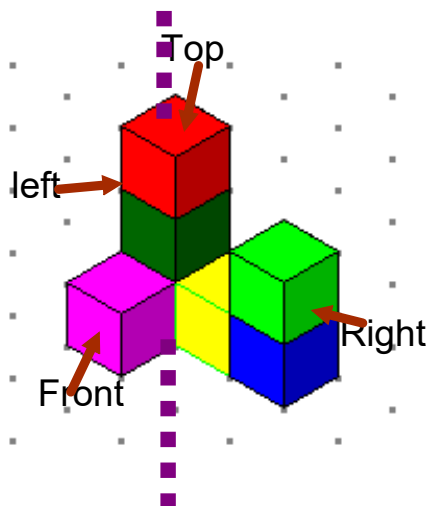
Grade 8

Oct. 11, 2018



a) Draw all views of front, left, top and right.

b) Redraw the views after we rotate horizontally clockwise 90° .

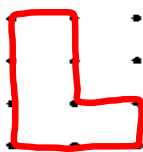


Square Dot Paper Grid Master

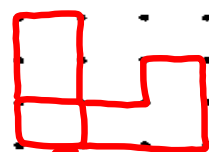
Top / Mat

OR

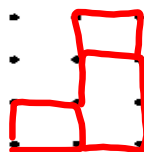
Top / Mat



Left



Front

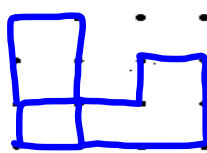
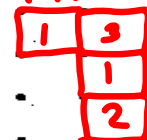


Right

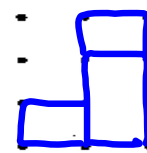
90° clockwise

b)

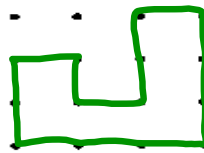
New Top / Mat



New Left

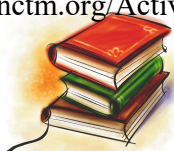


New Front



New Right

<http://illuminations.nctm.org/ActivityDetail.aspx?ID=125>



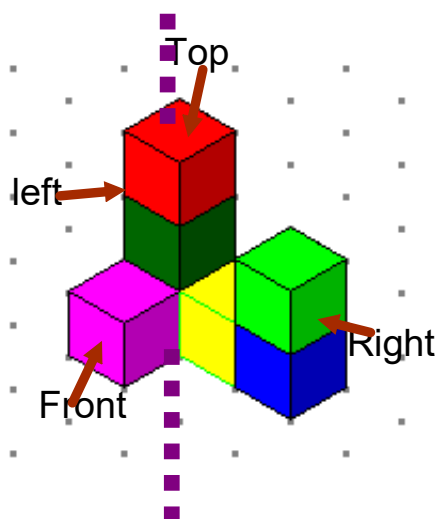
Warm Up

Grade 8

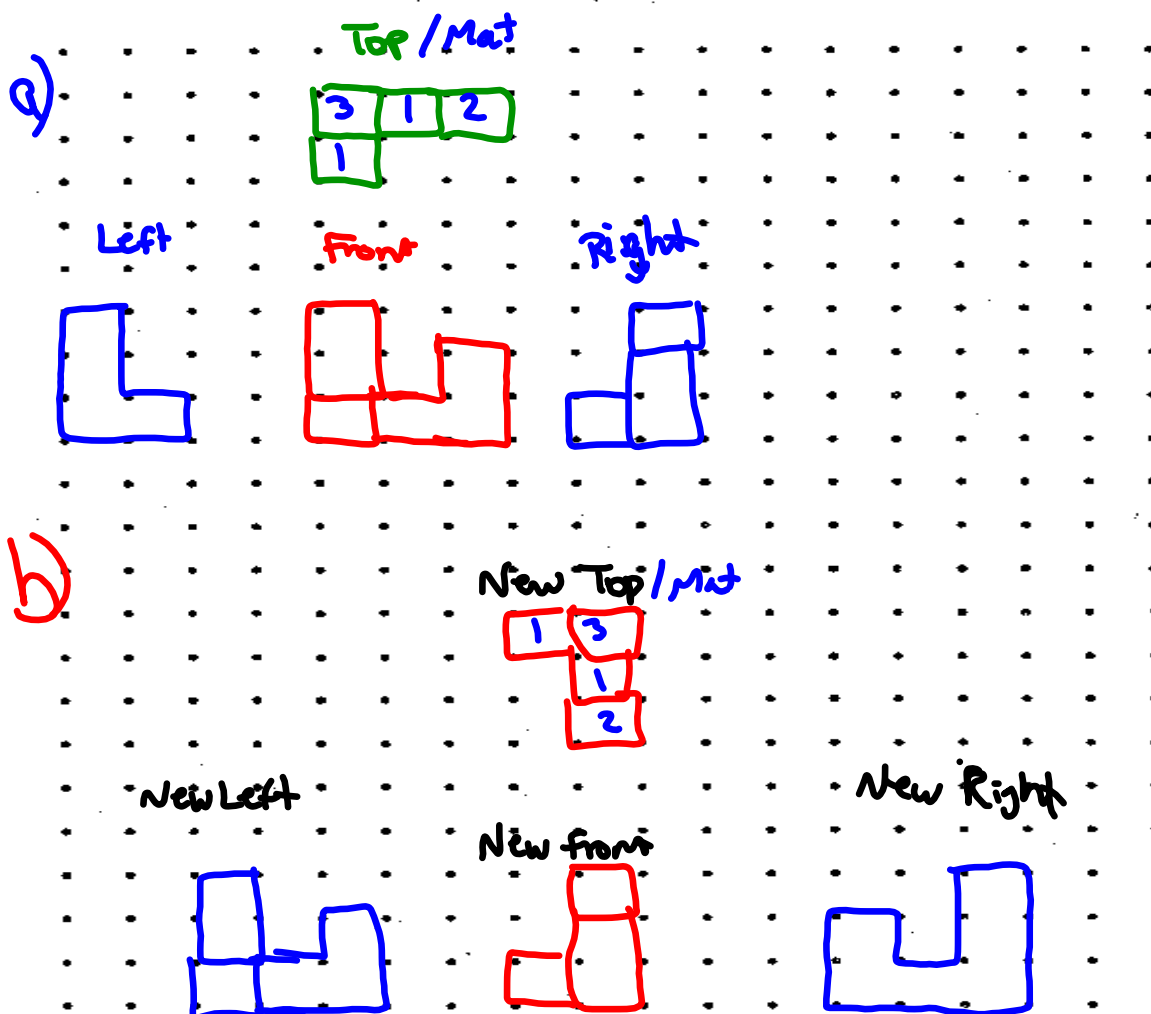
Oct 18, 2016



- Draw all views of front, left, top and right.
- Redraw the views after we rotate horizontally clockwise 90° .



Square Dot Paper Grid Master



HW from Friday

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.
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.

6)

- 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.

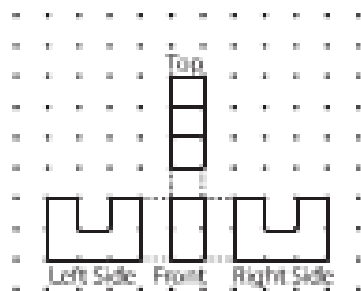
● 6.



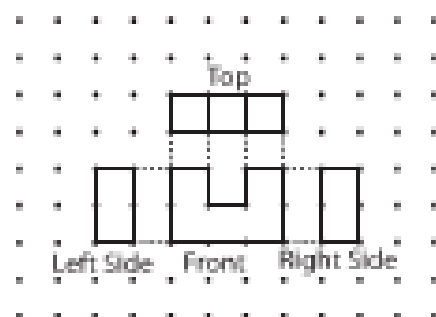
Front View

7. a) Predictions may vary.

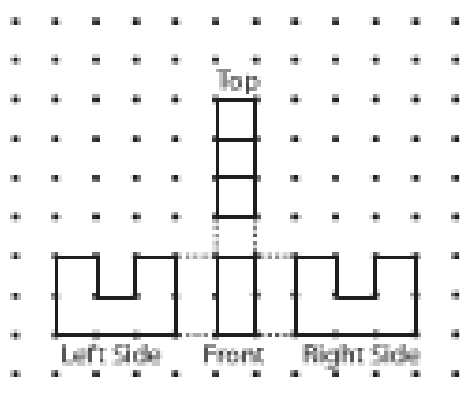
● b) i)



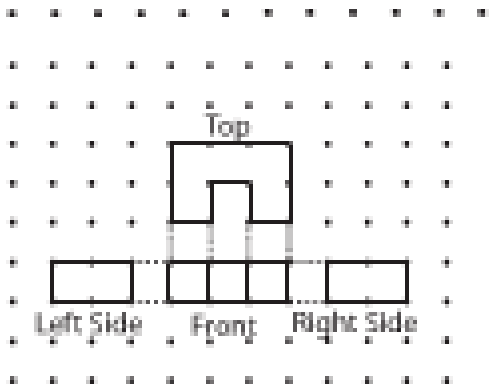
● ii)



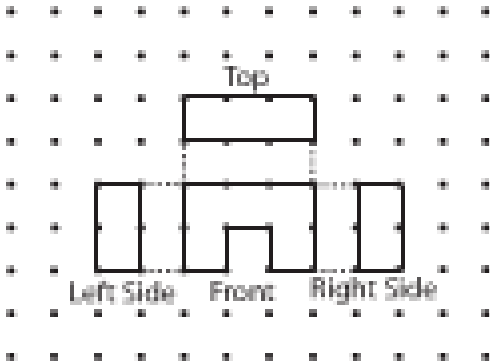
● iii)



8. a)

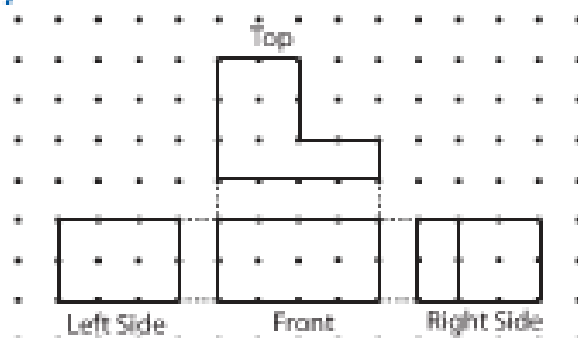


b)

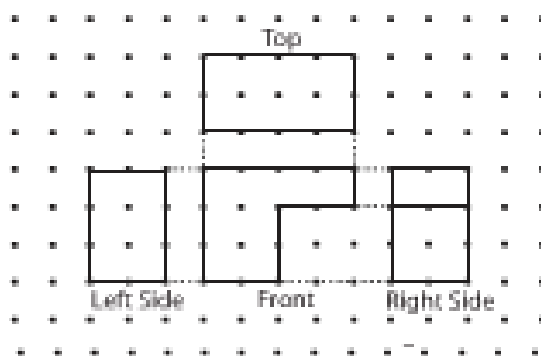


9. a) Predictions may vary.

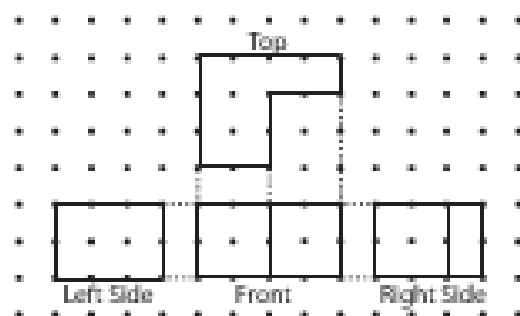
b) i)



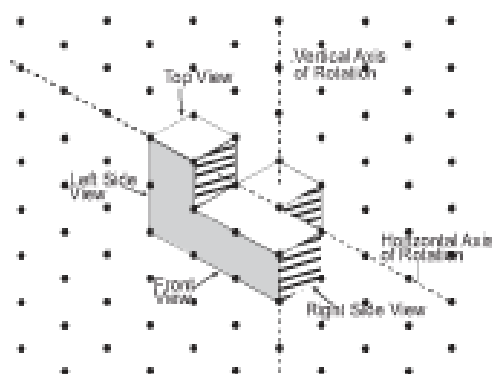
ii)



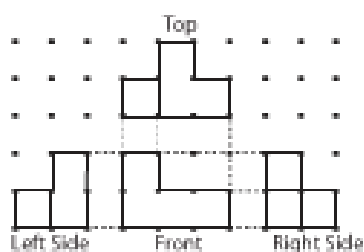
iii)



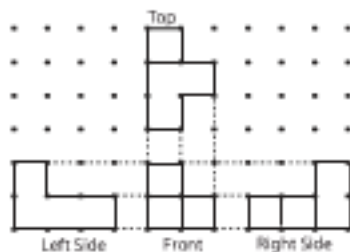
10. Answers will vary depending on object built.



a)

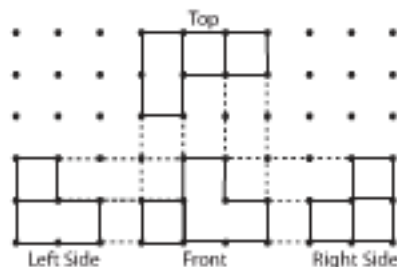


b) I chose a horizontal rotation of 90° clockwise.



c) A horizontal rotation of 270° counterclockwise

d) I chose a vertical rotation of 90° toward me.

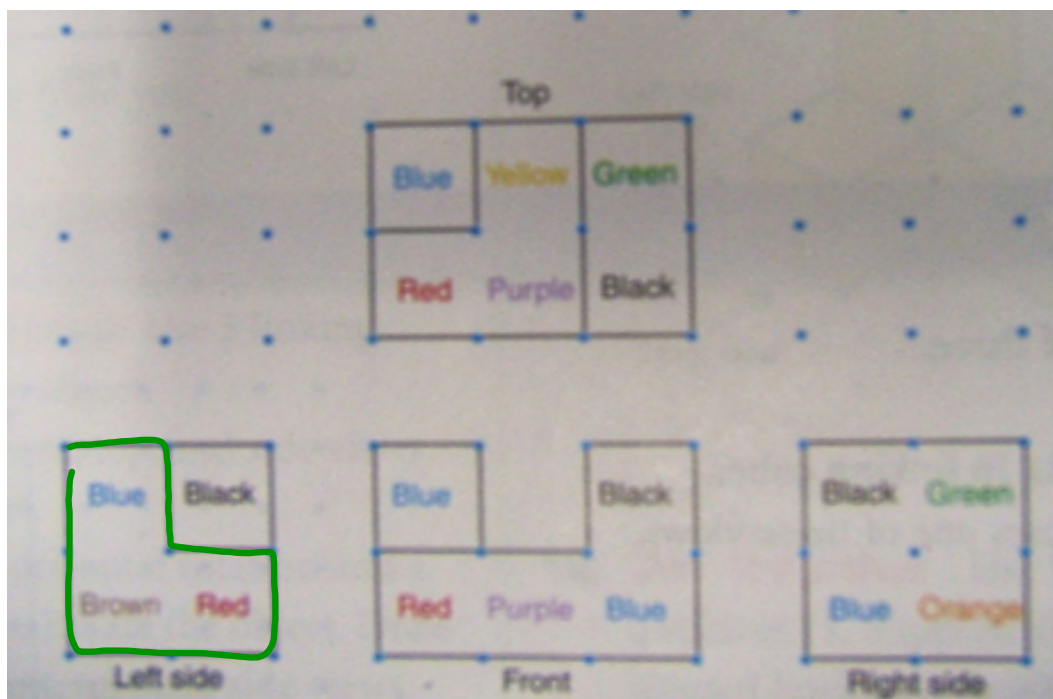


e) A vertical rotation of 270° away from me

Any questions from the
worksheets????



8.3 - Building Objects from their Views



Left Side - Shows 2 cubes high(Brown, Blue) & 2 cubed deep(Red Brown). The black cube is behind or in front of the other cubes.

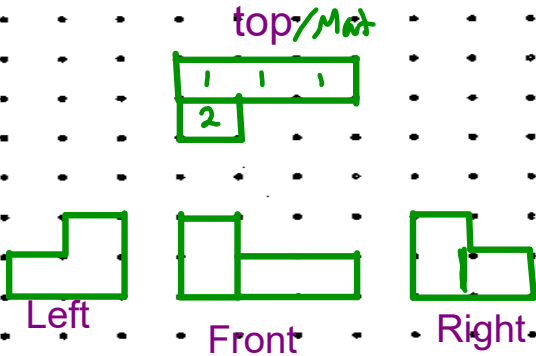
Front - shows that object is 3 cubes long(Red, Purple, Blue) and 2 cubes high (Blue, black), all on same level. The other blue over the red tells us it is either in front or behind the red BUT from the left we know it is connected to the brown so it must be BEHIND. That means the Black is in front.

Top - shows red, yellow and purple cube on same level and Blue, green& black on a different level.

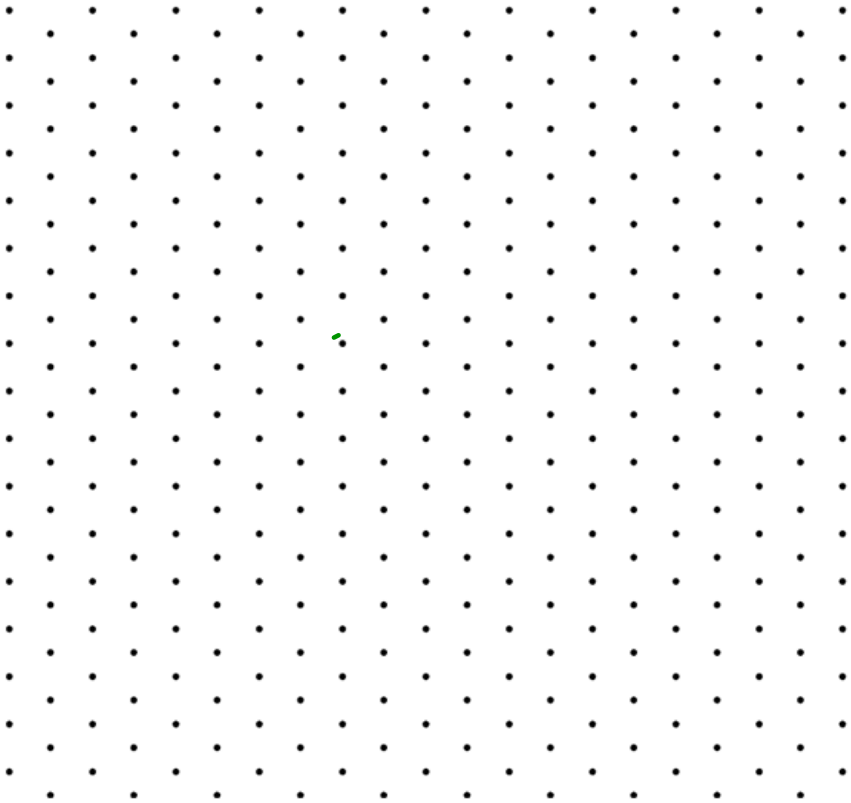
Right - Shows black Green, Blue and Orange on the same level which means Orange is bottom right cube

Square Dot Paper Grid Master

Make this object



Draw 3D Object on ISOMETRIC Dot PAPER



Class/Homework

Finish yesterday's worksheet

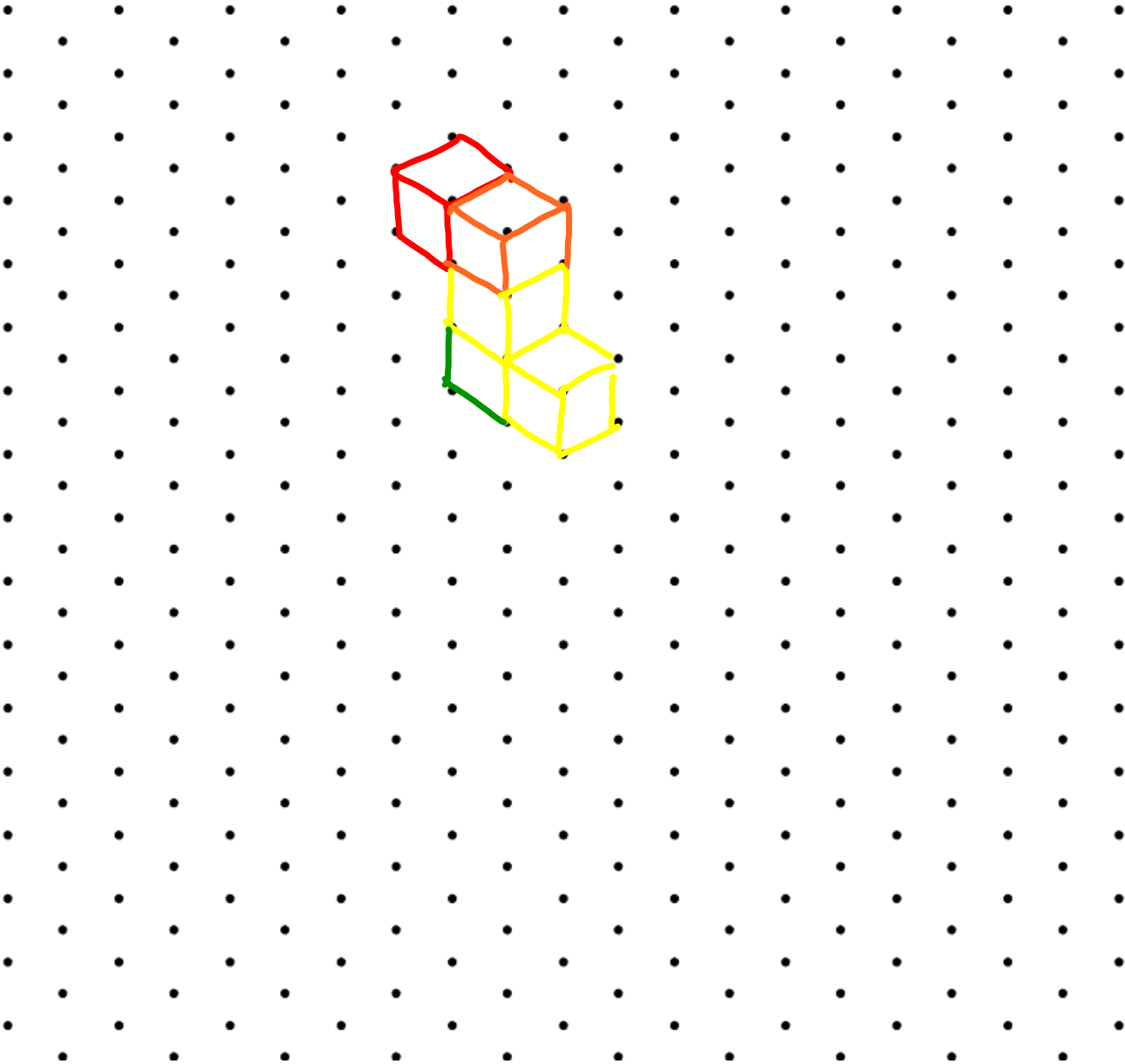


Page 450 - 451

#4 , #5, #6, #7, #8

Draw 5,6,7,8 on isometric dot paper





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.



Front View

Attachments

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