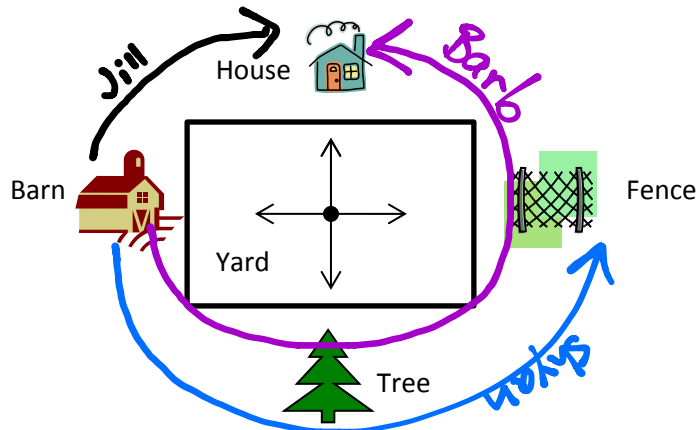


Name _____

Date _____

1. Jill, Shyan, and Barb stood in the middle of the yard and faced the barn. Jill turned 90° to the right. Shyan turned 180° to the left. Barb turned 270° to the left. To what was each girl now facing?

Jill House
 Shyan Fence
 Barb House



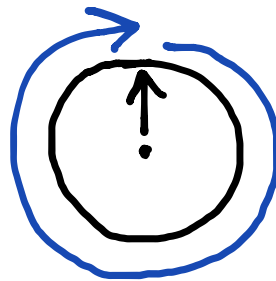
2. Allison looked at the clock at the beginning of class and at the end of class. How many degrees did the minute hand turn from the beginning of class until the end?



Beginning



End



The minute hand
turned 360° .

3. The snowboarder went off a jump and did a 180. In which direction was the snowboarder facing when he landed? How do you know?

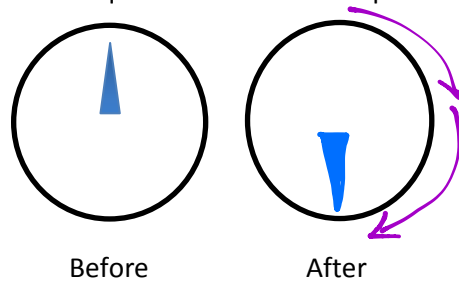
The snowboarder is now facing the opposite direction.



4. As she drove down the icy road, Mrs. Campbell slammed on her brakes. Her car did a 360. What does this mean?

Mrs. Campbell's car made a full turn (spin).

5. Jonah turned the knob of the stove two quarter-turns. Draw a picture showing the position of the knob after he turned it.



6. Betsy used her scissors to cut out a coupon from the newspaper. How many total quarter-turns will she need to rotate the paper in order to cut out the entire coupon?



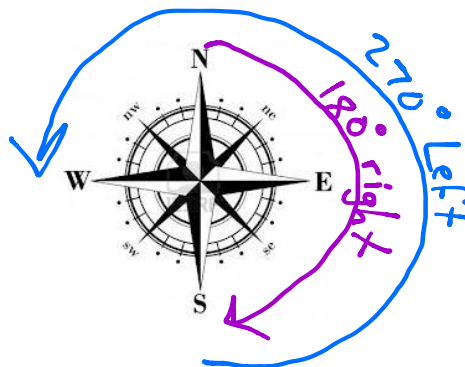
4 quarter turns. However, students could make an excellent argument for 3 quarter turns.

7. How many quarter-turns does the picture need to be rotated in order for it to be upright?

2 quarter turns



8. David faced north. He turned 180° to the right and then 270° degrees to the left. In what direction was he now facing?



David is now facing West.