

Name \_\_\_\_\_

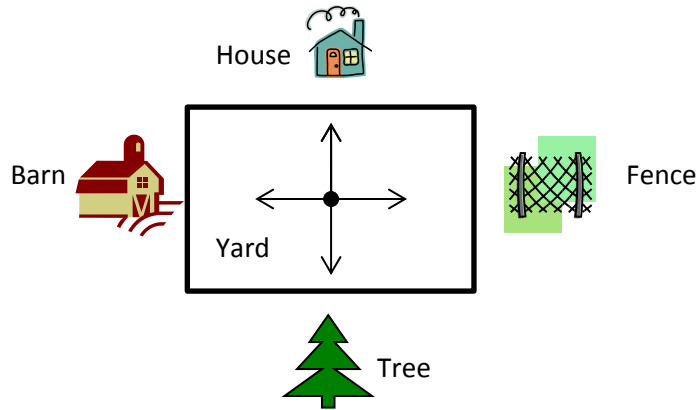
Date \_\_\_\_\_

1. Joe, Steve, and Bob stood in the middle of the yard and faced the house. Joe turned  $90^\circ$  to the right. Steve turned  $180^\circ$  to the right. Bob turned  $270^\circ$  to the right. Name the object that each boy is now facing.

Joe \_\_\_\_\_

Steve \_\_\_\_\_

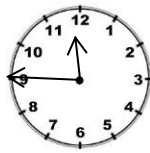
Bob \_\_\_\_\_



2. Monique 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

3. The skater jumped into the air and did a 360. What does that mean?

4. Mr. Martin drove away from his house without his wallet. He did a 180. Where is he heading now?

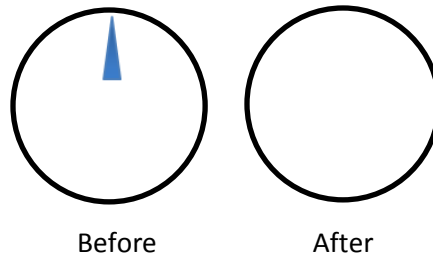


House



Store

5. John turned the knob of the shower  $270^\circ$  to the right. Draw a picture showing the position of the knob after he turned it.



6. Barb used her scissors to cut out a coupon from the newspaper. How many quarter-turns does she need to turn the paper in order to stay on the lines?



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



8. Meredith faced north. She turned  $90^\circ$  to the right, and then  $180^\circ$  more. In which direction is she now facing?

