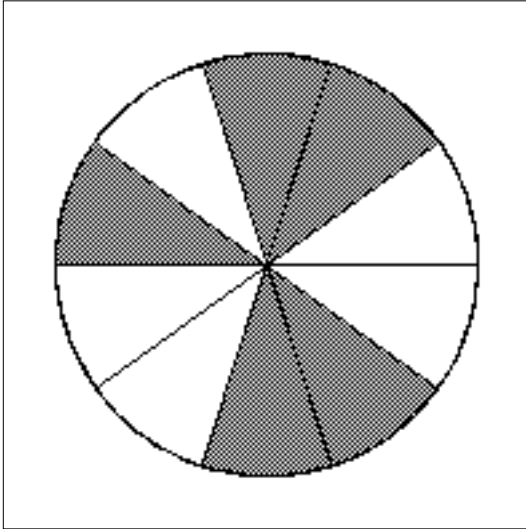




7. A cylindrical can of tennis balls with a  $2\frac{3}{4}$ -inch diameter contains 3 spherical tennis balls stacked one on top the other. What percentage of the space in the cylinder is also contained within the spheres? [Answer to the nearest tenth of a percent.]
8. The sum of 13 consecutive integers is 1859. What is the largest of these integers?
9. A circle is divided into tenths and half of it is shaded by coloring in half of the sectors. How many different ways are there to do this that are not reflections or rotations of each other? One example of shading is shown.



10. The first 10 numbers of a sequence are given below. What is the 20th number in the sequence?
- 1, 0, 1, 0, 1, 2, 3, 6, 11, 20, ...