Fraction Fill 2

The object of this game is to be the first team to earn 6 points by filling 6 circles (unit wholes) with fraction pieces. Points are recorded using number sentences to represent each filled circle. This game is for two teams of two players each.

Materials
- Orange, aqua, and black circle pieces from two circle pieces sets.
- Fraction Fill 2 Game Board
- Fraction Fill 2 Spinner
- A clear plastic spinner or a paper clip and pencil

Directions
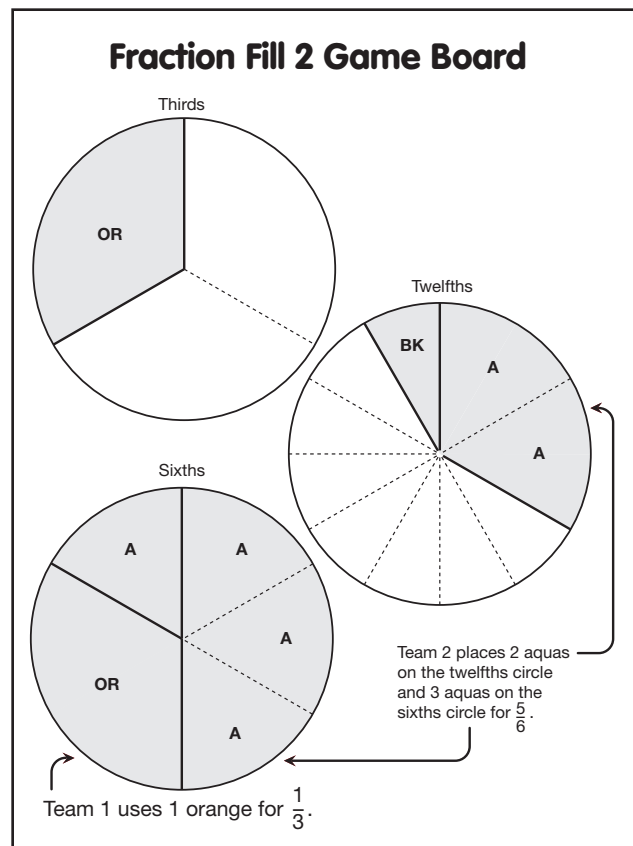Follow the *Fraction Fill 1* directions, but use orange, aqua, and black pieces.

1. For this game, the unit whole is the full circle.

2. To begin, place one piece of each color (orange, aqua, and black) on the Fraction Fill 2 Game Board.

3. The first team spins one time. The team must place pieces on the game board that are equal to the fraction shown on the spinner. For example, if a team spins $\frac{5}{6}$ on the spinner, they can choose to place either 5 aqua pieces, 2 orange pieces, and 1 aqua pieces, or 10 black pieces.

   The outside edges of the pieces must line up with lines on the circle. This means that:
   - Only orange pieces can go on the thirds circle.
   - Only orange and aqua pieces can go on the sixths circle.
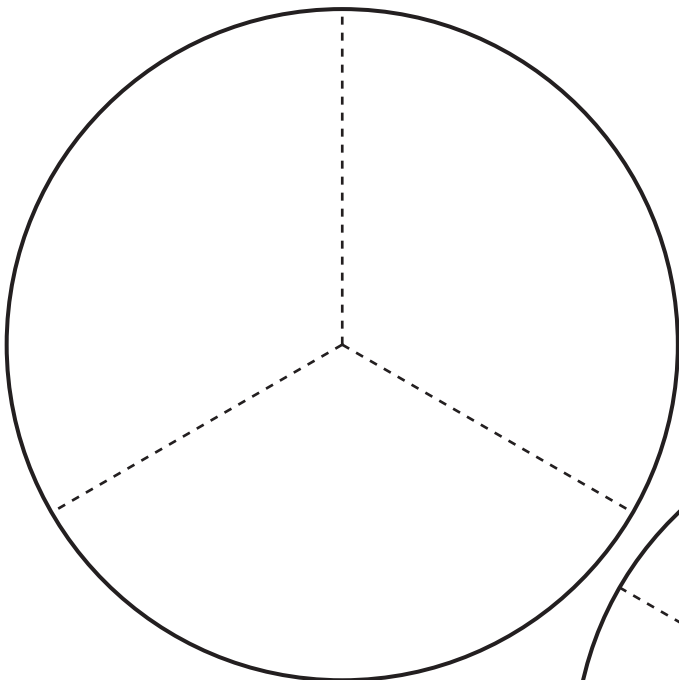   - Orange, aqua, and black pieces can go on the twelfths circle.

4. Teams earn one point each time they complete a circle. They record their points by writing a number sentence for the completed circle. For example, $\frac{1}{3} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = 1$ represents a filled circle. The other team can ask players to explain why a move is correct before a point is recorded.

5. When a team fills a circle, They cannot use that circle again until their next turn. They remove the pieces, so the circle can be used by the other team.

6. Teams take turns spinning and adding pieces. The first team to earn 6 points wins the game.

Example: As shown on the sample game board, Team 1 spins $\frac{1}{3}$ and places 1 orange on the sixths circle. Then Team 2 spins $\frac{5}{6}$. Since $\frac{5}{6} = \frac{3}{6} + \frac{2}{6}$, this team places 3 aquas on the sixths circle and 2 aquas on the twelfths circle. They complete a whole. They write $\frac{4}{6} + \frac{1}{3} = 1$ to earn one point.
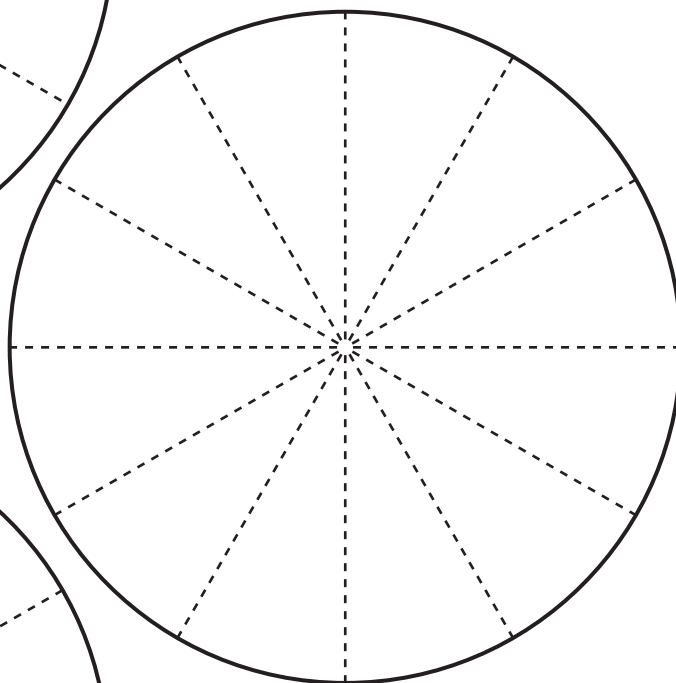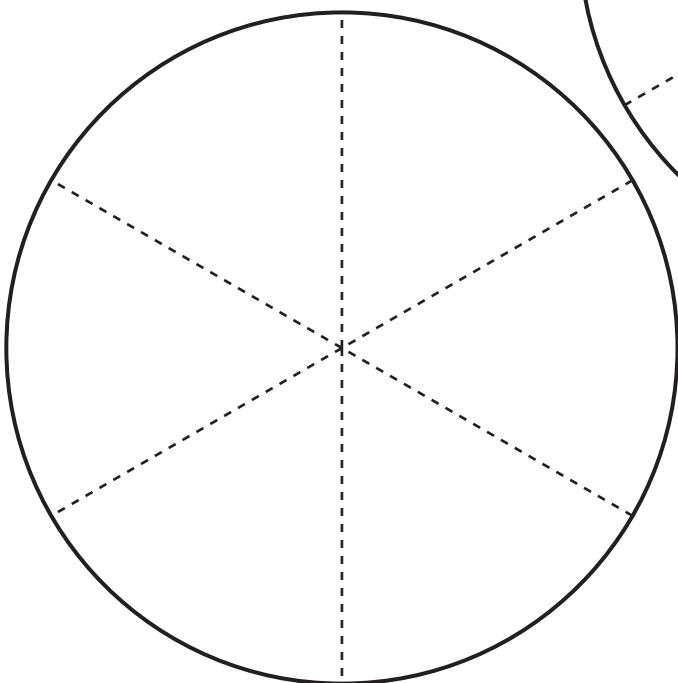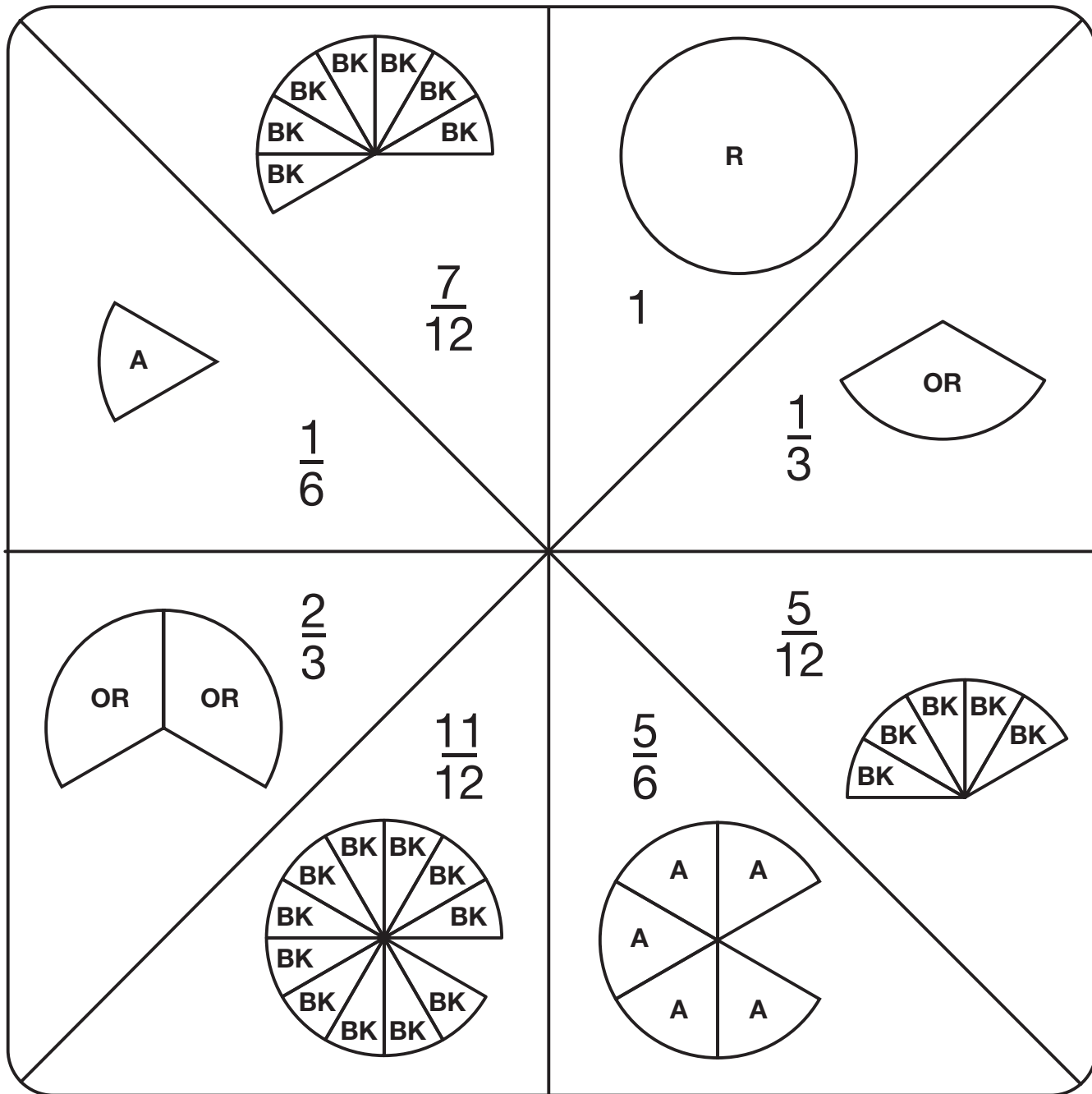
Fraction Fill 2 Game Board

Thirds

OR

Twelfths

BK   A

A

Sixths

A   A

A

OR

A

Team 2 places 2 aquas on the twelfths circle and 3 aquas on the sixths circle for $\frac{5}{6}$.

Team 1 uses 1 orange for $\frac{1}{3}$.

Fraction Fill 2 Game Board

Thirds

Twelfths

Sixths

Fraction Fill 2 Spinner