

Quest for the Net

Objective:

By the end of the lesson/activity, the students will be able to:

- Divide multi-digit whole numbers with fluency.

Materials:

- Light, round balls (i.e. ping pongs or soft sponge balls)
- Baskets
- “Basketball Numbers” document
- Whiteboards with markers
- Two resealable plastic bags

Teacher Preparation:

- Label one plastic bag as the “numerators” and the other bag as the “denominators”.
- Copy and cut the “Basketball Numbers” document. Place 1 or 2 set of numbers in each resealable plastic bag.
- Place the desk in rows to create groups.
- Place a basket and ball at the front of each group.
- Place a whiteboard and dry erase marker at the first desk in each row.

Directions:

- Assign seating or allow the students to sit in the row of their choice to create their teams.
- If needed, model the game for the students. As the students play, require everyone to work out the problem presented.

South Carolina College- and Career-Ready Standards for Mathematics:

6.NS.2 Fluently divide multi-digit whole numbers using a standard algorithmic approach.

1. Choose 2 basketball numbers from each bag. Write the fractions on the board as a division problem and require the students to solve it.
2. The student at the first desk of each row is in charge of solving the problem correctly to get a point without the help of their teammates.
3. Each student with the correct answer on their whiteboard will earn a point for their team. These players can attempt to make a basket to earn an additional point for their team.
4. The student will rotate to their back of their row, while their teammates move forward one seat.
5. Repeat this process. You will need to set a timer, and the team with the most points when the buzzer goes off is the winner.

Extensions:

- You, or a student, can pull two numbers to make the problem more difficult.
- Scaffold the learning by only adding smaller digits to the resealable bags and gradually increasing the difficulty of the problems by adding more digits.
- Make each student turn in their work for a classwork grade to make sure each student is held accountable for attempting all problems.

