Teacher Directions-Problem Solving Scoot

- There are 7 problems in this document. Cut each page on the dotted line.
- Take all 7 problems and hang them around the classroom.
- Split the students into 7 groups. Each student will need a copy of the student recording sheet (included in this document). Students will solve the problems from the scoot on the student recording sheet. Assign each group to a problem to start with.
- The teacher will direct the groups of students to move to the next problem. Allow 2-5 minutes per problem (teachers use your best judgment).
**Task Card #1**
The 5th and 6th graders both have recess at the same time and must share the playground. \( \frac{1}{4} \) of the playground is for all students who want to sit and read. The remaining space is divided equally between the two grades. The 6th grade garden club will use \( \frac{1}{6} \) of their space to plant a garden.

Create a diagram to show the fraction of the entire playground used for the garden. Defend your diagram using a mathematical equation.

**Task Card #2**
Mr. Jim went to the store to buy lumber to help create the class garden. He bought an eight-foot piece of wood to cut for the posts. He needs to cut the lumber into pieces that are \( \frac{3}{4} \) foot long to make posts for the fence. How many posts can he cut from the lumber bought?
Task Card #3

Julie has $8 \frac{3}{4}$ yards of fabric to make Mr. Bryant a classroom banner. Each person in the class will use $3 \frac{1}{2}$ yards for their own personal section. How many sections can be made from Julie’s fabric?

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Task Card #4

The baseball team is making pizzas to raise money for new uniforms. They use $\frac{2}{5}$ of a package of cheese on each pizza. If they have $12 \frac{1}{3}$ packages of cheese, how many pizzas will they be able to make?
Task Card #5

Shelly ran 5.23 miles on Tuesday, 6.12 miles on Wednesday, and 7.5 miles on Thursday. She must run a total of 27.7 miles this week. How many miles more miles does she need to run?

Task Card #6

Jordan withdrew \( \frac{1}{4} \) of his savings to purchase a new game station. He spent $450.45 of his withdrawal and had $150.55 left. How much did Jordan have in his savings account to begin with?
Task Card #7
Mrs. Howard had $1,450. She spent $\frac{2}{5}$ of the money on a Blu-ray player and $\frac{3}{7}$ of the remainder on Blu-Ray disks. How much money did she spend on Blu-Ray disks?
Student Recording Sheet

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1 - \frac{1}{4} = \frac{3}{4}
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\frac{3}{4} \times \frac{1}{2} = \frac{3}{8}
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\frac{1}{6} \times \frac{3}{8} = \frac{3}{48} = \frac{1}{16}
\]

The garden will be \(\frac{1}{16}\) of the entire playground.

2. He can cut \(10 \frac{2}{3}\) posts from the lumber bought.

3. There will be \(2 \frac{1}{2}\) sections.
4. They can make $30\frac{5}{6}$ pizzas.

5. She needs to run 8.85 more miles.

6. Jordan originally had $2,404 in his savings account.

7. She spent $372.86 on Blu-Ray disks.