

Pots of Gold

Judge: Preparation:

Tape a line on the floor.

Arrange 4 equal size coffee mugs at the following distances past the line on the floor: 5', 6', 7', 8', 9'
Labeled 5,6,7,8,9 respectively

Provide the following materials on the floor for the team members.

- 1 yard stick
- 1 8.5 x 11 piece of cardboard
- 2 8.5 x 11 pieces of paper
- 6 pennies
- 2 address labels
- 1 1" square of clay
- 2 Pencils
- 6 dimes
- 5 Straws
- 2 paperclips
- 6 Quarters
- 6 nickels

Provide a copy of the problem instructions on the table for the team members.

Judge Instructions:

(Judge: When team members enter the room, tell them)

This is a hands-on problem. You have 1 minute to select the five team members who will compete. The others must sit in these seats and watch or be escorted from the room. They may not assist in solving the problem and may not talk.

(Judge: After 5 Team Members Chosen and seated, Read all the instructions, repeat, then Start the Time)

Your challenge is to place money in each cup to obtain the highest score

Construction and practice (6 minutes)

- You will have 6 minutes to construct tools from the materials to assist you
- You may not break or cut the yardstick
- You may stop early and inform the Judges that you are done

Testing (2 minutes)

- You will use the tools constructed in part 1 to place coins into the cups
- You must stand behind the line and not touch the floor in front of the line
- If a coin falls to the floor, you may use tools to retrieve it
- You may not change the locations or positions of the cups

Scoring:

- 1-20 points for teamwork
- The Basic score for each cup, is 1 point for each coin in the cup, plus 1 point for each different type of coin in the cup
- The Final Score is the score for each cup is the Basic Score for the cup multiplied by the number on the cup
- For instance if cup 5 has 2 pennies, 2 nickels, and 1 quarter, the basic score would be $5 + 3 = 8$, and the final score for that cup would be $8 * 4 = 40$.

You may ask questions at any time, time continues

(Judge: Repeat all the instructions, then Start the Time)

Pots of Gold

Team Copy

Your challenge is to place money in each cup to obtain the highest score

Construction and practice (6 minutes)

- You will have 6 minutes to construct tools from the materials to assist you
- You may not break or cut the yardstick
- You may stop early and inform the Judges that you are done

Testing (2 minutes)

- You will use the tools constructed in part 1 to place coins into the cups
- You must stand behind the line and not touch the floor in front of the line
- If a coin falls to the floor, you may use tools to retrieve it
- You may not change the locations or positions of the cups

Scoring:

- 1-20 points for teamwork
- The Basic score for each cup, is 1 point for each coin in the cup, plus 1 point for each different type of coin in the cup
- The Final Score is the score for each cup is the Basic Score for the cup multiplied by the number on the cup
- For instance if cup 5 has 2 pennies, 2 nickels, and 1 quarter, the basic score would be $5 + 3 = 8$, and the final score for that cup would be $8 * 5 = 40$.

You may ask questions at any time, time continues