

## Horseshoes and Hand Grenades

Read to the team:

This is a hands-on problem. You will have 8 minutes to complete this problem.

Your problem is to relocate the given marbles to the items located on the floor. No one is allowed to pass over the foul lines. Time will end after 8 minutes or you run out of marbles. You will be given materials to assist you in moving the marbles.

Scoring:     50 points for every marble in the shot glass  
                  25 points for every marble in the cup  
                  15 points for every marble on the plate  
                  5 points for every marble within 1" of the plate

Materials:   25 marbles   8' tape measure   yard stick       4 coat hangers  
                  8' of clothes line                      Billiard cue       4 rubber bands  
                  sock    cardboard tube     Dixie cup

Set up: Before the teams enter, mark off a 10' square with tape. This will become the foul line. Place a shot glass about 5 feet away from the foul line. Place a cup on a plate about 4' away from one side of the foul line.

Let the team be creative. You may allow the team to move the cups closer as long as they don't cross the line. Don't let them know this unless they ask. They may retrieve failed attempts, but they should not be allowed to just move the failed marbles closer to the plate to receive points. If this gets too easy or too hard, move the foul lines to accommodate. Change the rules a bit and try it again.