

Destination ImagiNation®
Instant Challenge
2005 Regional Competition –Advanced Level

TOWER BALLS

Challenge: Your **TASK** is to support 3 golf balls as high above a taped area as possible and then knock the golf balls out of the taped area by rolling billiard balls at them.

Time: You will have up to 5 minutes to use your **IMAGINATION** to place the golf balls and up to 1 minute to roll billiard balls at them.

Set-up: In the center of the room is a taped rectangle. This is the taped area that your golf balls must be above. On one side of the room is a taped line. You must roll billiard balls at the golf balls from behind this line. There are materials on a table that you may use to place the golf balls as high above the taped area as possible, as well as 3 golf balls, billiard balls, and a ramp to use when you roll billiard balls at the golf balls.

Procedure

•**Part One** (5 minutes): Use the materials on the table to support the golf balls within the taped area but as high above the taped area as possible. No materials may adhere to the floor or the golf balls. You also may practice rolling billiard balls in Part One. You will be warned when you have 1 minute remaining and 30 seconds remaining in Part One. **You must have at least one of the golf balls within the taped area by the end of Part One in order to proceed to Part Two.** At the end of Part One, no team member may be touching the golf balls or any of the materials being used to support the golf balls. The Appraisers then will measure how high each of the golf balls is above the floor.

•**Part Two** (1 minute): Roll billiard balls towards the golf balls and knock them out of the taped area. When rolling billiard balls, all team members must be behind the taped line. You must use the ramp to roll billiard balls and billiard balls must be rolled one at a time. In order to receive additional score, a golf ball must be completely outside the taped area.

Materials:

4 Mailing Labels

12 inches (30 cm) of String

6 Paper Clips

2 Paper Cups

4 Straws

2 Rubber Bands

2 Clothespins

4 Index Cards

2 Pencils

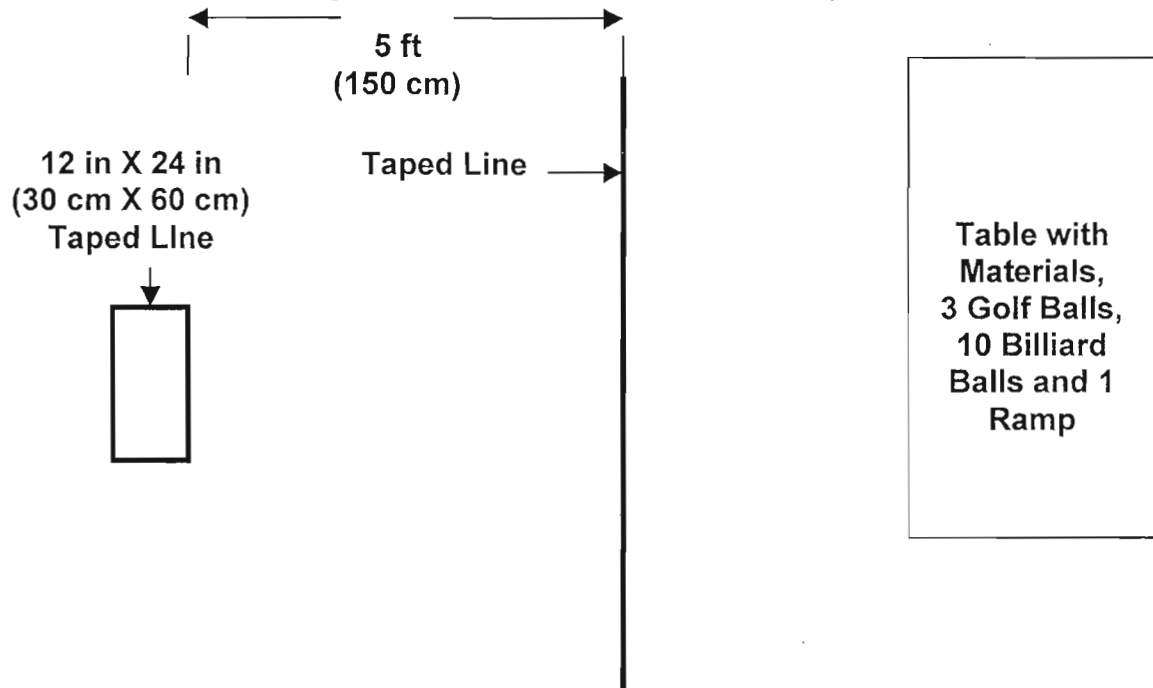
A pair of scissors will be available for your team to use, but the scissors may not be used to support the golf balls. The team also will have a ramp, 3 golf balls, and 10 billiard balls to use in the Challenge.

Scoring: You will receive

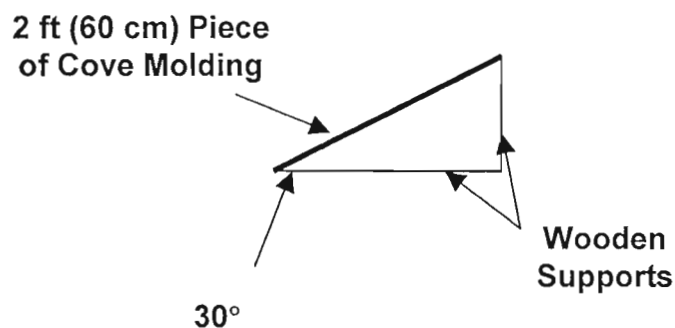
- A. 1 point for each two inches (5.0 cm) that the golf balls are above the taped area (30 points maximum).
- B. 10 points (30 points maximum) for each golf ball knocked out of the taped area in Part Two.
- C. Up to 20 points for how creatively you attempt to solve the **TASK**.
- D. Up to 20 points for how well your team works together.

For Appraisers Only:

1. The set-up consists of 12 in X 24 in (30 cm X 60 cm) taped area in the center of the floor. Five ft (150 cm) from this taped area is a taped line. Behind the line is a table with materials, as well as 3 golf balls, 10 billiard balls and a ramp.



2. The ramp should be made from a 2 ft (60 cm) piece of cove molding attached to 2 wooden supports.



3. In Part Two, team members may cross the taped line to retrieve billiard balls. However, team members may NOT touch any other items across the taped line and all team members must be behind the taped line whenever a billiard ball is rolled.
4. In Part One, the team should be warned when there is 1 minute left and when there is 30 seconds left. At each of these times, an Appraiser should remind the team, "**You must have at least one of the golf balls within the taped area by the end of Part One in order to proceed to Part Two.**"

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Procedure

Part One (5 minutes):

- Use the materials on the table to support the golf balls within the taped area but as high above the taped area as possible. No materials may adhere to the floor or the golf balls.
- You also may practice rolling billiard balls in Part One.
- You will be warned when you have 1 minute remaining and 30 seconds remaining in Part One.
- **You must have at least one of the golf balls within the taped area by the end of Part One in order to proceed to Part Two.**
- At the end of Part One, no team member may be touching the golf balls or any of the materials being used to support the golf balls. The Appraisers then will measure how high each of the golf balls is above the floor.

Part Two (1 minute):

- Roll billiard balls towards the golf balls and knock them out of the taped area.
- When rolling billiard balls, all team members must be behind the taped line.
- You must use the ramp to roll billiard balls and billiard balls must be rolled one at a time.
- In order to receive additional score, a golf ball must be completely outside the taped area.

Scoring: You will receive

- 1 point for each two inches (5.0 cm) that the golf balls are above the taped area (30 points maximum).
- 10 points (30 points maximum) for each golf ball knocked out of the taped area in Part Two.
- Up to 20 points for how creatively you attempt to solve the **TASK**.
- Up to 20 points for how well your team works together.

TOWER BALLS

Materials:

(Tape to Table)

- 4 Mailing Labels
- 2 Paper Cups
- 2 Rubber Bands
- 4 Index Cards
- 12 inches (30 cm) of String
- 4 Straws
- 2 Clothespins
- 2 Pencils
- 6 Paper Clips

A pair of scissors will be available for your team to use, but the scissors may not be used to support the golf balls. The team also will have a ramp, 3 golf balls, and 10 billiard balls to use in the Challenge.

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APPRAISER RUBRICS

RUBRIC FOR APPRAISING HOW CREATIVELY THE TEAM ATTEMPTS TO SOLVE THE TASK

Points	1 – 5	6 – 10	11 – 15	16 – 20
Qualities	<ul style="list-style-type: none"> • Creativity is present and it's somewhat enhanced • The solution applies 	<ul style="list-style-type: none"> • Creativity is present and it's relevant • The solution is complete 	<ul style="list-style-type: none"> • Creativity is present and it's integrated • Chiefly original work 	<ul style="list-style-type: none"> • Creativity is there and it's innovative • AHAI WOW!

RUBRIC FOR APPRAISING TEAMWORK

Points	1 – 5	6 – 10	11 – 15	16 – 20
Qualities	<ul style="list-style-type: none"> • Dominating individual who limits participation of others • Cooperation is minimal • Little sharing of ideas 	<ul style="list-style-type: none"> • Some evidence of individual team member roles • Some cooperation • Some evidence of accepting ideas of others 	<ul style="list-style-type: none"> • Acceptance of team roles above average • Good cooperation • Sharing and acceptance of ideas of others 	<ul style="list-style-type: none"> • Leadership and team roles are easily identified • Diversity of skills mutually respected and evident • Team dynamics are exemplary

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Team Name: _____ Level: E M S U

Passport Number: _____ Team Challenge: _____

Appraiser's Name: _____

TOWER BALLS

INSTANT CHALLENGE INDIVIDUAL SCORE SHEET

Score Element	Range	Team Score
A. _____ # of inches (2.5 cm) in total height of golf balls above floor	_____ X ½ (30 Points Maximum)	
B. _____ # of golf balls knocked out of taped area in Part Two	_____ X 10 (30 Points Maximum)	
C. How creatively the team attempts to solve the TASK	1 – 20	
D. Teamwork	1 – 20	
Total		

Note: Team score elements should be recorded in whole numbers. (No fractions or decimals.)

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Team Name: _____ Level: E M S U

Passport Number: _____ Team Challenge: _____

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INSTANT CHALLENGE MASTER SCORE SHEET

Appraiser's Name	Total Score
1.	
2.	
3.	
4.	
Add 1 + 2 + 3 + 4	E.
Divide E by # of Appraisers	F.

NOTE: The division in the final step should be carried out to 3 decimal places.

INSTANT CHALLENGE SCORE

G.

NOTE: Rewrite the final score in the box above. The final score should be rounded to 2 decimal points. Round up if the third decimal is 5 or more.