Design Brief
GEMS-CELL TOWERS

You are a structural engineer for GEMS-CELL. Your 2-woman team is competing to build cell phone towers in Northern Virginia.

Your Job: Design the tallest tower possible for the lowest cost. Your tower will be made of steel beams (spaghetti) and joints (mini-marshmallows.) You must anchor the cell phone dish (large marshmallow) on the top of the tower.

Materials: 15 pieces of spaghetti (beams)
10 miniature marshmallows (joints)
1 large marshmallow (cell phone dish)

Costs: Beams: $100
Joints: $50

You can use half beams, but cannot deduct the cost of half-beams you did not use.

Your tower must be stable enough to be measured, costed, and photographed.

Team members:_____

Plan it:

Measure it:_____

Cost it out: _____beams @ $100
_____joints @ $50

Total: $_____/tower

Total cost per inch_____
(Divide cost by inches)

BIDS

Team	Height	Cost	Cost/inch	Rank