

Pipe Project: Pentagon Skyscraper

Junior Level

Specifications	Study Club Value
Use the pipes and fittings to make a structure according to the following specifications: • The structure must be able to stand without falling over. • The structure must be at least 4 feet tall. • The structure must have a pentagon at each end.	\$.02
Use the Pipe Parts worksheet to determine the cost of the pipes and fittings for your structure.	\$.03

Intermediate Level

Specifications	Study Club Value
Use the pipes and fittings to make a five-sided structure according to the following specifications: • The structure must be able to stand without falling over. • The structure must be 4 and $\frac{1}{2}$ feet tall. • The structure must stand with no more than three pipes touching the floor.	\$.04
Use the Pipe Parts worksheet to determine the cost of the pipes and fittings for your structure.	\$.06

Senior Level

Specifications	Study Club Value
Draw a plan for a five-sided structure according to the following specifications: • The structure must be able to stand without falling over. • You must use no more than \$30.00 worth of pipes and fittings. • You must design your structure to be as tall as possible while remaining within your budget.	\$.10
Use the Pipe Parts worksheet to demonstrate that your structure can be made for no more than \$30.00.	\$.05
Construct the structure according to your plan.	\$.05 plus a bonus of \$.01 for each foot of height.