

PARADE FLOAT

Content Standards:

- Apply ratios and proportions to geometric concepts.
- Find the surface area and volume of solid figures.

Task:

You are given the opportunity to create a float for the St. Patrick's Day Parade. You need to submit a model of your float in advance. You will create a model of your float using at least three different solids we have been studying this chapter. Find the dimensions of each of the solids you are using for your model. You must find the surface area and volume of each of the solids and then find the total surface area and volume. Then, you will create a scale to show what the dimensions of the actual float for the parade and find the total surface area and volume. Be creative! We will vote on the best St. Patrick's Day Parade float.

Choices of solids (Remember to choose 3 of these.):

Rectangular prism

Cylinder

Cone

Regular prism

Sphere

Criteria

- Find surface area of solids
- Find volume of solids
- Find dimensions of actual float
- Find surface area of actual float (using proportions)
- Find volume of actual float (using proportions)

Criteria			
Find surface area of model float	Was not close to finding surface area (0-1 pts)	On the right track to finding the surface area, but it was incorrect (2 pts)	Found the correct surface area (3 pts)
Find volume of model float	Was not close to finding volume (0-1 pts)	On the right track to finding the volume, but it was incorrect (2 pts)	Found the correct volume (3 pts)
Find dimensions of actual float	Did not find the actual dimensions of the float (0-1 pts)	Found correct dimensions for parts of the float but, not all (2 pts)	Found all correct dimensions of the float (3 pts)
Find surface area of actual float using proportions	Was not close to finding surface area (0-1 pts)	On the right track to finding the surface area, but it was incorrect (2 pts)	Found the correct surface area (3 pts)
Find the volume of the actual float using proportions	Was not close to finding volume (0-1 pts)	On the right track to finding the volume, but it was incorrect (2 pts)	Found the correct volume (3 pts)

Points multiplied by 3

Total _____/45