Inflatable Structures:

- Due Friday, Nov. 8th
- Last day to work in class Tuesday, Nov. 5th
- Surface area calculations due Friday, Nov. 8th

Surface Area Calculations:

Use your A+CAD layout drawing

or

Use your partner's A+CAD layout

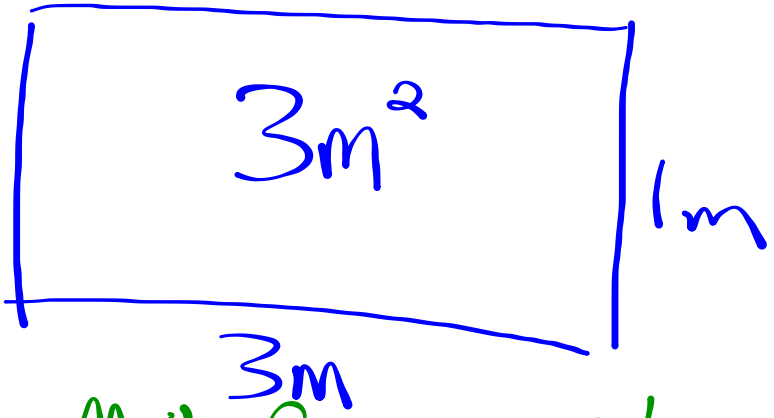
or

Use our example

INDIVIDUAL ASSIGNMENT!
you can share a drawing,
but do your own work

You will calculate the total area of plastic you used for your inflatable structure

most of you used
10 – 20,000 cm²

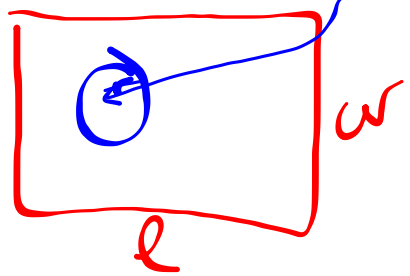


Most of you used
1 – 2 m²

1. Calculate the area of each geometric figure on your AutoCAD layout
2. Add these together to find the total surface area

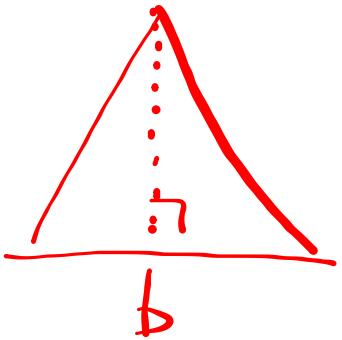
Find the area & add together

- Be careful with arithmetic
- Look out for complicated shapes and missing measurements
- Subtract areas that you cut out of shapes

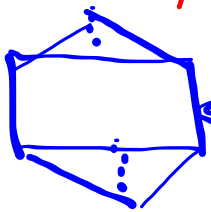


$A_{circle} = 3.14 \times r \times r$

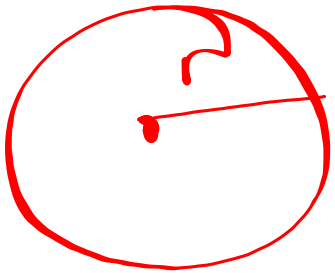
$A_{rectangle} = l \times w$



$A_{triangle} = \frac{1}{2} \times b \times h$



? → break into shapes you recognize



$A_{circle} = \pi \times r^2$

$= 3.14 \times r \times r$

missing measurements? Calculate or estimate