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| Math 9**Surface Area – 2 Dimensional** | Name:Date:Block: |

So far we have learned about line symmetry and rotational symmetry in previous classes. Today we will learn about surface area as it is an important subject in many areas such as design, engineering, and architecture. We also want to try and connect the concept of symmetry to finding the surface area of objects.

**What is a surface area**? It is the sum of the areas of all the faces of an object.

**Warm-up**: Find the area and perimeter (circumference) of the following 2-D objects below.

\*Write the **formula** for finding the area inside each shape. For the circle, also write the formula for circumference.

Length= 6 cm

Width= 4 cm

Area=\_\_\_\_\_\_\_\_\_\_

Perimeter=\_\_\_\_\_\_\_\_\_\_\_

Base=3 cm

Height=5cm

Area=\_\_\_\_\_\_\_\_\_

Perimeter=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

r= 4 cm

Area=\_\_\_\_\_\_\_\_\_

Circ=\_\_\_\_\_\_\_\_\_\_\_\_

**Example 1**: Find the **surface area** of the shaded area.

r= 5 cm 6 cm

 4cm