

## Worksheet 2

### Theme: Space Explorer Geometry

Name:

Class:



#### Section 1: Alien Angles

An alien signal forms an angle of **135°** on the screen.

1. Is this angle **acute**, **right**, **obtuse**, or **reflex**?
2. Draw it using a protractor.
3. Find its **supplementary** and **complementary** angles.



#### Section 2: Surface Area of the Rocket

The rocket is a cylinder with:

- Radius = 3 m
- Height = 10 m

**Find the surface area** (not including the base)

Formula:  $SA = 2\pi rh$



#### Section 3: Solar Panel Grid


Solar panels are placed in a **parallelogram** of base 6 m and height 5 m.

1. Draw the shape.
2. Find the **area** using  $A = \text{base} \times \text{height}$ .

## Section 4: Volume of Moon Capsule

Moon capsule = sphere

- Radius = 2 m  
Find the **volume**:  $V = (4/3)\pi r^3$

 **Design Lab:** Sketch a satellite using a **circle**, **triangle**, and **cylinder**. Label dimensions and find the total surface area.