

Worksheet 2

Theme: Space Explorer Geometry

Name:

Class:

Mission 1: Identify Alien Shapes




Instructions: Some alien spaceships are shaped like geometric figures! Help identify and label each shape spotted by the space telescope.

(Imagine illustrations of UFOs shaped like trapezoids, octagons, rectangles, and pentagons.)

Ship Name	Number of Sides	Shape Name
Zorp Cruiser	4 sides, 1 pair of parallel lines	_____
Orbiter-X	8 equal sides	_____
Rocket Pod	4 sides, 2 equal lengths	_____
Lunar Leaf	5 sides	_____

Mission 2: Count the Stars! (Angles Edition)

Instructions: Count the **angles** of each shape below and write the total number. Then color the shapes:

-  Red for shapes with **less than 4 angles**
-  Yellow for shapes with **exactly 4 angles**
-  Blue for shapes with **more than 4 angles**

Shape	Number of Angles	Color
Triangle Satellite	_____	_____
Hexa-Planet	_____	_____
Square Hatch	_____	_____
Pentagon Rover	_____	_____

Mission 3: Alien Perimeter Patrol

Instructions: Help the astronaut patrol the perimeter of alien buildings by calculating the perimeter of each structure. Round your answers to the nearest centimetre.

Alien Building	Side Measurements	Perimeter Formula	Total Perimeter
Glorp Dome	6 cm, 6 cm, 6 cm	$a + b + c$	_____ cm
Zarn Tunnel	8 cm, 4 cm, 8 cm, 4 cm	$a + b + a + b$	_____ cm
Ring Pad	10 cm each side (4 sides)	$4 \times \text{side}$	_____ cm



Mission 4: Draw Your Own Space Station

Instructions: Use at least 4 different shapes to design your own space station. Label each shape used and write how many sides and angles it has.



Shapes Used: _____, _____, _____, _____



Station Name: _____



Bonus Blast: Geometry Decoder Puzzle

Instructions: Use the shape key to decode the secret geometry message from the stars. Match the number of sides to the correct letter:

Key:

3 sides = T

4 equal sides = S

5 sides = A

6 sides = R

8 sides = G



Code: 3, 4 equal, 6, 5, 8

Decoded Message: _ _ _ _ _