Worksheet 3

Theme: N	Mystery Geometry Investigation	
Name: Class:		
Q Case	File 1: Clue Collector – Shape Hunt at the Museum	
	ns: The Shape Museum was robbed! Look at the exhibit signs and mat ext shape name. Write your answers below.	ch each description
Clue Tag	Exhibit Description	Shape Name
#1	I have 6 equal sides and no curves.	
#2	I'm long, have 4 sides, and 2 pairs of equal lengths.	
#3	I look like a slice of pizza and have 3 sides.	
#4	I have no corners or straight lines. I'm perfect for a wheel.	
	File 2: Identify the Suspect Angles! ns: Circle the correct type of angle based on the clues. Then draw one rovided.	example of each in
	angle that looks like the corner of a square is called: Acute Right Obtuse Draw it here:	
	angle that opens more than a right angle is: Acute Right Obtuse Draw it here:	

3.			than a right angle	is:
	○ Acute	○ Right	Obtuse	
	Nraw it	here:		

Case File 3: Perimeter Clue Cards

Instructions: Calculate the perimeter of each clue card. These cards were dropped by the shape thief!

Clue Card	Side Lengths	Formula Used	Perimeter
Card 1 – Triangle	5 cm, 4 cm, 6 cm	a + b + c	cm
Card 2 – Square	7 cm each	4 × side	cm
Card 3 – Rectangle	9 cm, 3 cm	$2 \times (L + W)$	cm

Case File 4: The Shape Shadow Puzzle

Instructions: Match the object to its shadow shape. Then, write how many sides and angles it has.

Object	Shadow Shape	Sides	Angles
Stop Sign			
Door			
Ice Cream Cone			
Book Cover			

E Case File 5: Sketch the Culprit's Hideout

Instructions: Based on clues, sketch the hideout using **only geometric shapes**. Use a square window, a triangular roof, a rectangular door, and a circular satellite.

Label each shape and count total sides and angles.

Total Shapes Used:
Total Sides:
Total Angles:

🧬 Bonus Mystery: Shape Riddle Cipher

I'm made of four sides, but not all are the same
Two are long, two are short, that's my name.
What am I?