Instructions

1. **Read each section carefully.** You are currently an inmate at Green Dolphin Street Prison, and your Stand abilities are just beginning to manifest.
2. **Use a ruler and pencil** for the drawing sections to ensure precision.
3. **Show your work** for all math problems to earn full credit.
4. **Complete the "Stand User ID"** at the end to finalize your profile.
5. If you finish early, try the **Gravity Challenge** at the bottom of the page.

Section 1: Jolyne's String Geometry

Jolyne Cujoh’s Stand, **Stone Free**, allows her to unravel her body into thin, incredibly strong string. This string can be used to form complex geometric shapes. Use the grid below to create **Parabolic Line Art** (which creates a curve using only straight lines).

Task:

1. On the vertical axis (Y), mark points every 1 cm.
2. On the horizontal axis (X), mark points every 1 cm.
3. Connect the highest point on the Y-axis to the point closest to the origin (0,0) on the X-axis.
4. Connect the second-highest Y point to the second-closest X point.
5. Continue until all points are connected.

(Space for Drawing: Imagine a large L-shaped graph area here)

Section 2: Hermes’ Multiplication Glitch

Hermes Costello uses her Stand, **Kiss**, to place stickers on objects. When a sticker is applied, the object duplicates (doubles). When the sticker is removed, the two objects violently smash back into one.

The Rule: If you double the length and width of a flat object, the **Area** doesn't just double—it quadruples! Solve the table below to see how many stickers Hermes needs to cover the prison yard.

Original Width	Original Length	Original Area	Doubled Width (Sticker Applied)	Doubled Length (Sticker Applied)	New Area
3 ft	5 ft	15 sq ft	6 ft	10 ft	60 sq ft
4 m	7 m				
10 in	12 in				
2.5 cm	8 cm				
9 ft	9 ft				
12 m	5 m				

Section 3: Foo Fighters’ Plankton Probability

F.F. (Foo Fighters) is a colony of plankton inhabiting a corpse. To survive, F.F. must maintain a specific ratio of plankton to water.

The Problem: F.F. has a container with 200 total organisms.

- 40 are Golden Plankton (Speed type)
- 110 are Green Plankton (Defense type)
- 50 are Blue Plankton (Healing type)

Calculate the Probability (P) of picking one at random:

1. **P(Golden): / 200 =** %
2. **P(Green): / 200 =** %
3. **P(Blue): / 200 =** %

The Challenge: If F.F. loses 20 Blue Plankton due to dehydration, what is the *new* total population, and what is the new probability of picking a Golden Plankton?
Answer: _____

Section 4: Visual Arts - Design Your Stand

In Part 6, Stands often represent abstract concepts. Your task is to draw a Stand based on a **Mathematical Theme**. Choose one from the list below and draw it in the box.

Themes:

- **The Protractor:** A Stand that controls angles and reflections.
- **Infinite Fractal:** A Stand that can shrink forever into smaller versions of itself.
- **The Isosceles:** A Stand with perfect symmetry and sharp edges.

(Space for Character Design - Draw your Stand below)

Section 5: The Gravity of Fate (Challenge)

Enrico Pucci believes in "Gravity"—the idea that certain people are destined to meet. On a coordinate plane, Jolyne is at point **(3, 4)**. Pucci's Stand, **C-Moon**, reverses gravity, causing Jolyne to be **reflected over the X-axis** and then **translated 5 units to the left**.

1. What is Jolyne's coordinate after the reflection over the X-axis? ____
2. What is her final coordinate after moving 5 units to the left? ____

Answer Key

Section 2:

- Row 2: Area 28 / W 8, L 14 / New Area 112
- Row 3: Area 120 / W 20, L 24 / New Area 480
- Row 4: Area 20 / W 5, L 16 / New Area 80
- Row 5: Area 81 / W 18, L 18 / New Area 324
- Row 6: Area 60 / W 24, L 10 / New Area 240

Section 3:

1. 40/200 = 20%
2. 110/200 = 55%
3. 50/200 = 25% *Challenge:* New total 180. New P(Golden) = 40/180 = 22.2%

Section 5:

1. (3, -4)
2. (-2, -4)