

AUTHORIZED

# MISSION BRIEFING

OPERATION : ZETA RECOVERY

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## 1. SITUATION REPORT

Orbital Station Zeta has suffered a critical catastrophic failure. All primary systems—Navigation, Oxygen, and Power—are offline. The onboard AI has locked the controls behind an encryption protocol based on **EQUIVALENT FRACTIONS**.

## 2. YOUR MISSION

You are the acting Systems Specialist. You must manually bypass the security protocols to restore the station's functions before life support fails completely.

## 3. INSTRUCTIONS

1. Review the **CLUE SHEETS** in this dossier.
2. Solve each math problem to reveal a numeric or text **ACCESS CODE**.
3. Enter the codes into the **TERMINAL** at:

**logiclabseducation.github.io/escape-01/**

**FAILURE IS NOT AN OPTION.**

GOOD LUCK, SPECIALIST.

# PROJECT: ZETA RECOVERY

SUBJECT: EQUIVALENT FRACTIONS

DECLASSIFIED

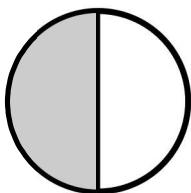
REF: FUEL-CELLS-01

## SECTION 1: THE FUEL CELLS (VISUAL MATCHING).

*"Cadet, we need to refuel the auxiliary engines. Match the visual fuel levels to the correct frequency."*

### PROBLEM 1: MAIN TANK

OBSERVATION: A circular tank is divided into **2 parts**. **1 part** is filled (shaded).



Find the matching frequency on your keypad:

- $2/4$
- $2/6$
- $1/3$

ENTER CODE:

INPUT CODE

### PROBLEM 2: RESERVE TANK

OBSERVATION: A rectangular cell is divided into **3 parts**. **2 parts** are filled.



Identify the reserve tank capacity:

- $4/6$
- $3/6$
- $2/4$

ENTER CODE:

INPUT CODE

# PROJECT: ZETA RECOVERY

EYES ONLY

SUBJECT: EQUIVALENT FRACTIONS

REF: NAV-DATA-02

## SECTION 2: NAVIGATION DATA (THE "BIG 1" RULE).

*"We are drifting off course. Recalibrate the signal by multiplying the numerator and denominator by the same number."*

### PROBLEM 3: SIGNAL AMPLIFICATION

To reach Earth, we must amplify signal **2/5** by a factor of **3**.

$$(2 \times 3) / (5 \times 3) = ?$$

ENTER CODE (Result):

INPUT CODE

### PROBLEM 4: ANTENNA RATIO

The antenna requires a **3/4** ratio. The base is set to **12**.

Determine the required signal strength (x).

$$3/4 = x/12$$

ENTER CODE (x):

INPUT CODE

**URGENT**

# PROJECT: ZETA RECOVERY

SUBJECT: EQUIVALENT FRACTIONS

REF: LIFE-SUPPORT-03

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## SECTION 3: LIFE SUPPORT (SIMPLIFYING)

*"CO<sub>2</sub> levels rising. You must simplify the system output to maximum efficiency immediately."*

### **PROBLEM 5: OXYGEN SCRUBBERS**

Oxygen scrubbers are running at **10/20** efficiency.

**MISSION:** Simplify to restart.

**ENTER CODE:**

INPUT CODE

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### **PROBLEM 6: CARBON VENTING**

Carbon levels are at **8/12**.

**MISSION:** Reduce to simplest terms to vent the air.

**ENTER CODE:**

INPUT CODE

# PROJECT: ZETA RECOVERY

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SUBJECT: EQUIVALENT FRACTIONS

REF: ORBITAL-04

## SECTION 4: ORBITAL MECHANICS (NUMBER LINES).

"Plotting trajectory home. Ensure all coordinates align on the linear scale."

### PROBLEM 7: TRAJECTORY CHECK

The orbital map shows Point A at **1/3**.

Is Point B at **2/6** the same distance?

ENTER CODE (YES/NO):

INPUT CODE

### PROBLEM 8: ANOMALY DETECTION

Which of these coordinates is NOT a match for **1/4**?

- [A] 2/8
- [B] 3/12
- [C] 4/10

ENTER CODE (A, B, or C):

INPUT CODE

# PROJECT: ZETA RECOVERY

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SUBJECT: EQUIVALENT FRACTIONS

REF: WARP-DRIVE-05

## SECTION 5: THE WARP DRIVE (CHALLENGE).

*"Final checks before warp jump. Calculations must be precise."*

### **PROBLEM 9: POWER CONSUMPTION**

The Captain used **4/8** of the battery.

The Pilot used **1/2** of the battery.

**Did they use the same amount?**

**ENTER CODE (YES/NO):**

INPUT CODE

### **PROBLEM 10: CORE STABILITY**

The core requires **2/10** stability.

On a 100-point scale dashboard, what is the target integer?

$$2/10 = x/100$$

**ENTER FINAL CODE:**

INPUT CODE