

**MISSION CONTROL: THE LONG DIVISION LAUNCH PAD****Flight Commander (Student Name):** _____**Launch Code Status:** ☐ Locked ☐ Flight Ready**THE MISSION BRIEFING**

Commander, we have a major problem! The main booster rockets are ready for liftoff, but the trajectory computer has offline sectors. To launch the rocket safely into orbit, you must compute 4 crucial launch codes using the **D.M.S.B. Sequence** (Divide, Multiply, Subtract, Bring Down).

To ensure the rocket doesn't veer off course, your calculations must stay perfectly locked inside the **Grid Guidance System** (the graph columns below). Keep your digits lined up, verify there are no fuel leaks (remainders), and let's clear this ship for departure!

**STAGE 1: IGNITION CODE (SYSTEM CHECK)**

Align your columns in the grid. Compute how many times the outer engine divisor goes into the main fuel dividend.

Lock #1: $444 \div 6$

6	)				

**STAGE 2: BOOSTER CODES (CLIMBING ORBIT)**

The atmospheric pressure is building! Keep your D.M.S.B. loops running smoothly.

Lock #2: $525 \div 5$

5	)				



Lock #3: $288 \div 3$

3	)			



STAGE 3: THE DEEP SPACE MATRIX (ELITE FREQUENCY)

This is the final barrier before deep space. The numbers are maxed out—stay sharp, Commander!

Lock #4: $768 \div 8$

8	)			



MISSION VERIFICATION (THE REVERSE RE-ENTRY CHECK)

Before lighting up the main engines, you must run a **Reverse Check** to ensure your codes are 100% accurate. Multiply your final top answers (quotients) by the outside numbers (divisors) using the **Multiplication Dot (·)** matrix below:

- **Code #1 Check:** _____ $\cdot 4 = 364$
- **Code #4 Check:** _____ $\cdot 8 = 768$



LIFTOFF APPROVED!

Show your completed Grid Guidance lines and your Reverse Check signatures to your Flight Director (Parent/Tutor) to claim your mission patch!

