Division

While working in a group make sure you:

- Expect to make mistakes but be sure to reflect/learn from them!
- Are civil and are aware of your impact on others.
- Assume and engage with the strongest argument while assuming best intent.

Definition Division For any whole number r and s with $s \neq 0$, the quotient of r divided by s, written $r \div s$, is k, if it exists, such that $r = s \times k$.

- 1. Consider the number represented with two flats, one long, and 2 units shown below.
 - (a) Write the number of units in positional notation for the given base.

							Ľ	

(b) Divide the above number by 4_{six} using the share model.

Algorithm Division For any whole numbers a and b, with divisor $b \neq 0$, there are whole numbers q and r so that

$$a = bq + r$$

and $0 \leq r < b$.

2. Find the quotient and reminder when 212_{six} is divided by 4_{six} .

3. Evaluate $112_{\text{five}} \div 4_{\text{five}}$