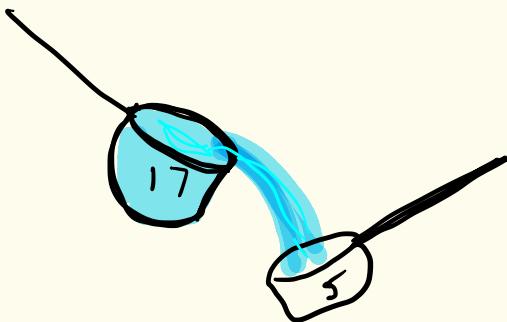


MODULAR Arithmetic w/ Scoops

$$17 \bmod 5 = \underline{\underline{2}}$$



- Fill the large scoop
- Use it to fill the small scoop as many times as you can.

- How much is left in the small scoop the last time?



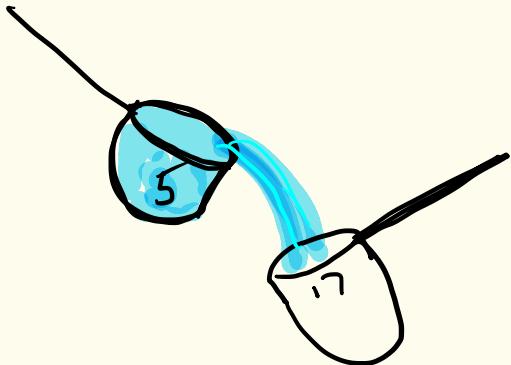
$$3 \times 5 + 2 = 17$$

2 cups left

Modular Arithmetic w/ Scoops

$$5 \bmod 17 = 5$$

- Fill the 1st scoop
- Use it to fill the 2nd scoop as many times as you can.



1. Pour the 5 scoop into the 17 scoop.

2. How much is left in the 2nd scoop?



$$2+3=5$$

MODULAR ARITHMETIC w/ SCOOPS

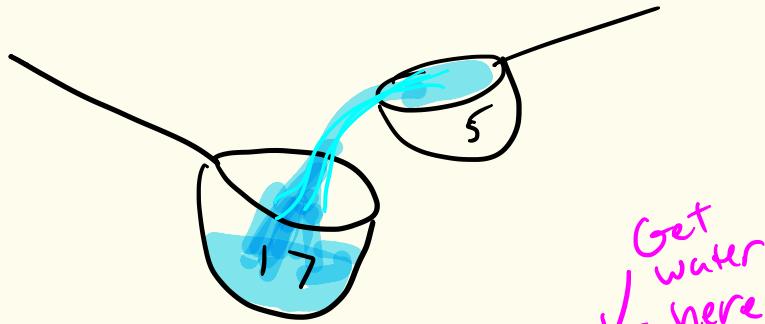
↑
see it?

-17 means empty scoop

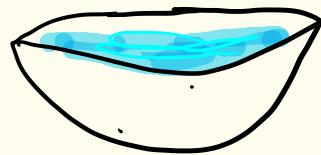
$$-17 \bmod 5 = 3$$



use the 5
scoop to
Fill.



1. This time use the 5 scoop to Fill the 17 scoop.



2. How much is left in the small scoop the last time?

