

#### Be Fluent: Strategies, Models, and Games to Promote Flexible Fact Fluency

NCTM Hartford 2018



### NUMBER FACT STRATEGIES

#### ADDITION

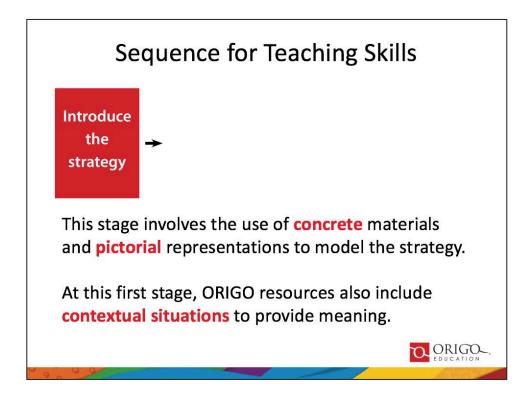
- Count-on 1, 2 and 0
- Doubles and near doubles
- Make ten

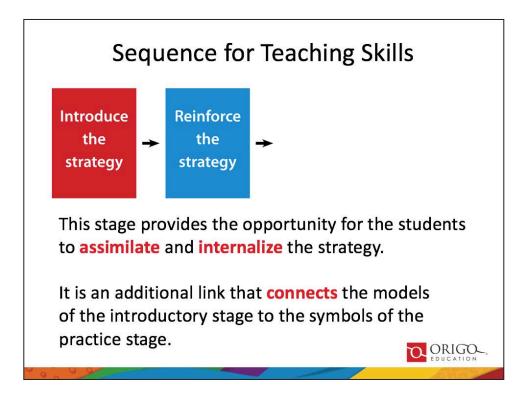
#### SUBTRACTION

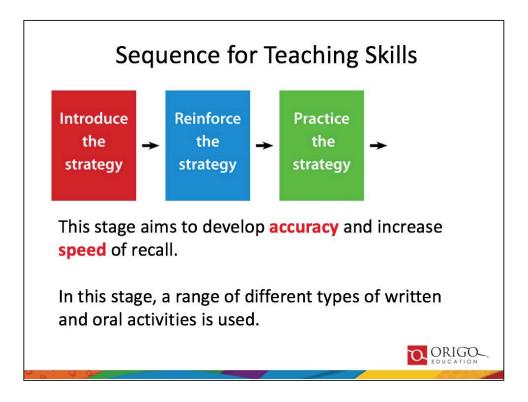
Think addition

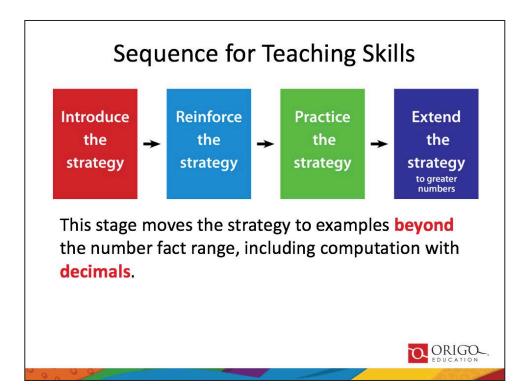
### **TEACHING SEQUENCE**

- Introduce (see page 2)
- Reinforce (see page 2)
- Practice (see page 4)
- Extend (see page 4)



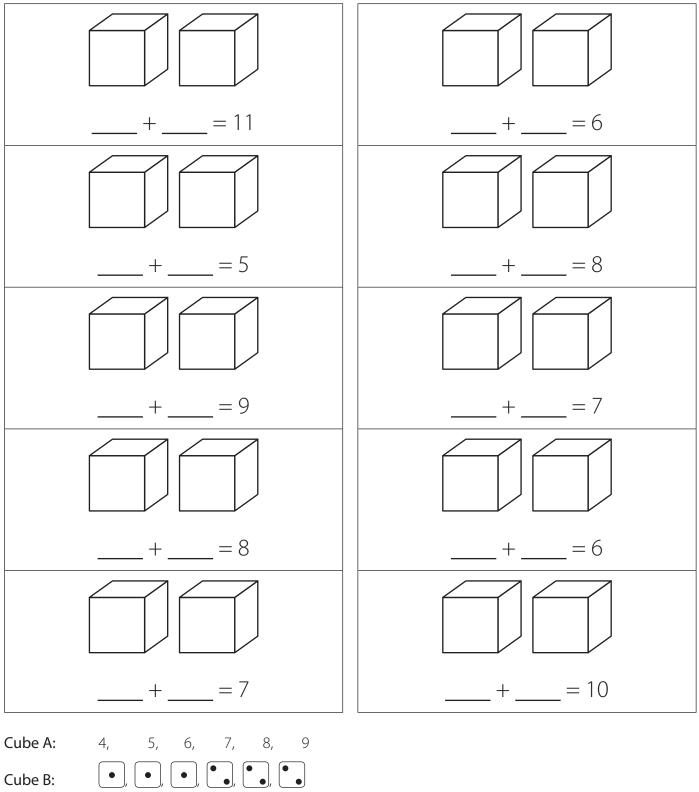






## **REINFORCE:** Count on 1 and 2

- Roll your number cubes and count on 1 or 2.
- Find your answer below.
- Write your numbers on the number cubes. Write the number fact.



#### **REINFORCE:** Doubles-plus-1

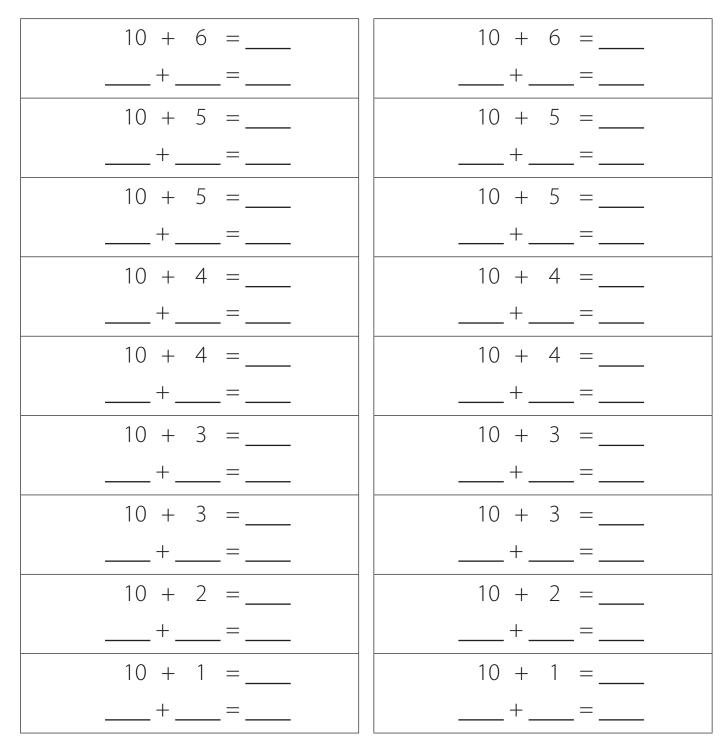
11	19	13	15
13	9	17	19
17	11	15	9

**Cube:** 4, 5, 6, 7, 8, 9 (Same as previous game)

### **INTRODUCE:** Make Ten

### **REINFORCE:** Make Ten

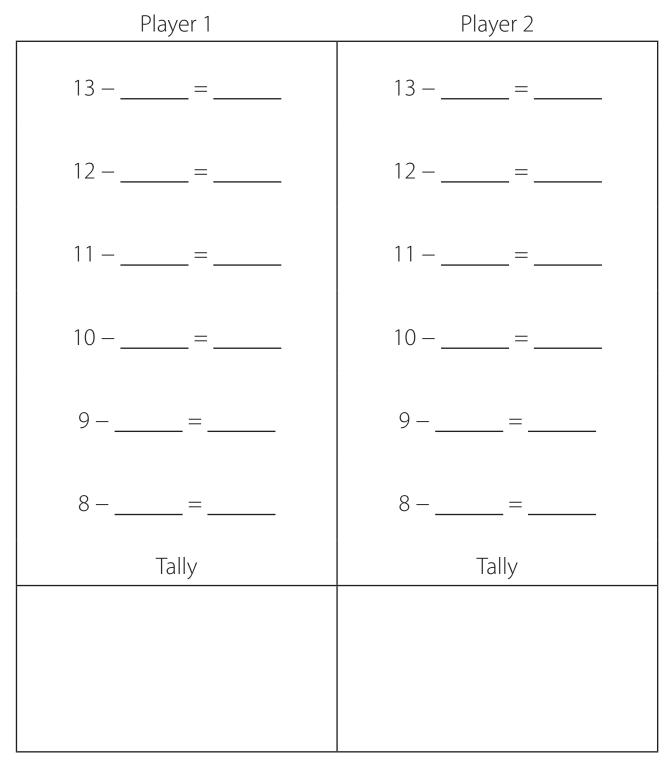
- Roll your number cubes and write the fact below the example in the grid that will help you figure out the answer.
- Write the answer to both facts.



Cube A:8, 8, 8, 9, 9, 9Cube B:3, 4, 5, 5, 6, 7

### CONNECT ADDITION AND SUBTRACTION

# Take or Tally



Cube A: 1, 2, 3, 1, 2, 3

**Cube B:** 7, 8, 9, 10, 11, 12