Stepping Toward Addition and Subtraction Fluency

HCTM Honolulu 2019

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NUMBER FACT STRATEGIES

ADDITION

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

SUBTRACTION

Think addition

MULTIPLICATION

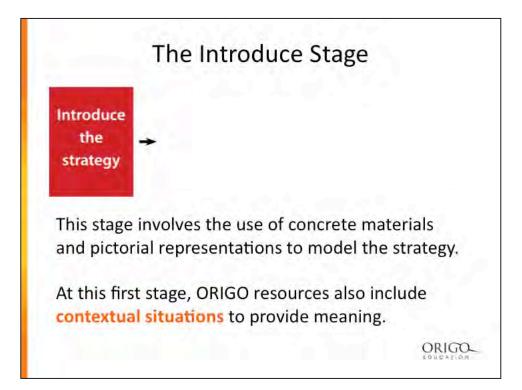
- Use tens (5s)
- Make generalizations (1s and 0s)
- Use doubles (2s, 4s and 8s)
- Build up/down (9s and 6s)

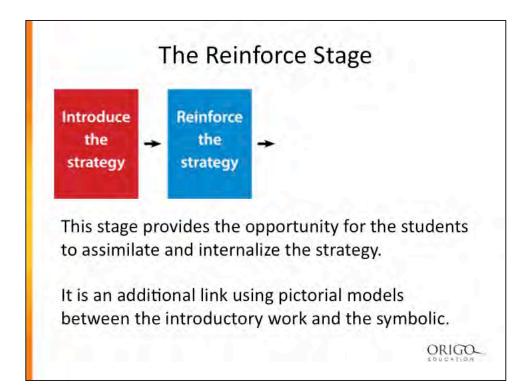
DIVISION

Think multiplication

TEACHING SEQUENCE

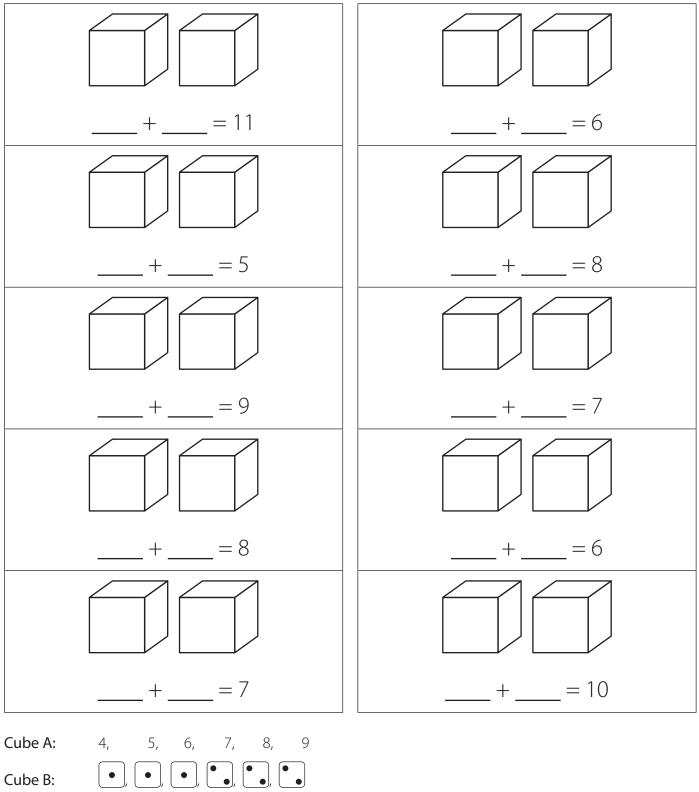
- Introduce (see page 2)
- Reinforce (see page 2)
- Practice (see page 4)
- Extend (see page 4)

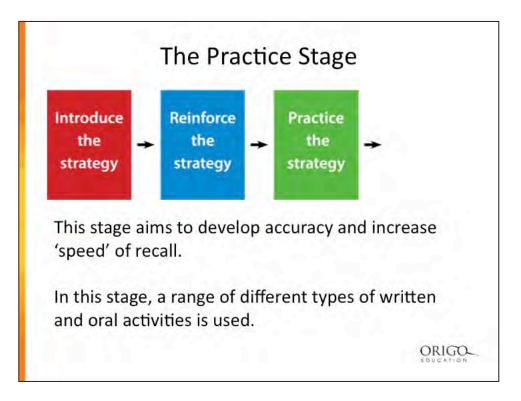


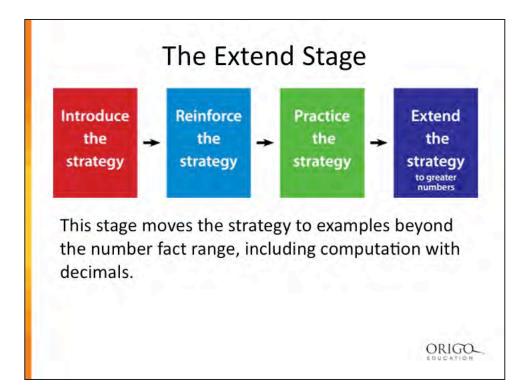


REINFORCE: Count on 1 and 2

- 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.







ADDITION CHART

| + | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|----|----|----|----|----|----|----|----|----|
| 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 6 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 7 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |

□ Count-on facts

□ Use doubles facts

□ Make ten facts

REINFORCE: Double-add-1

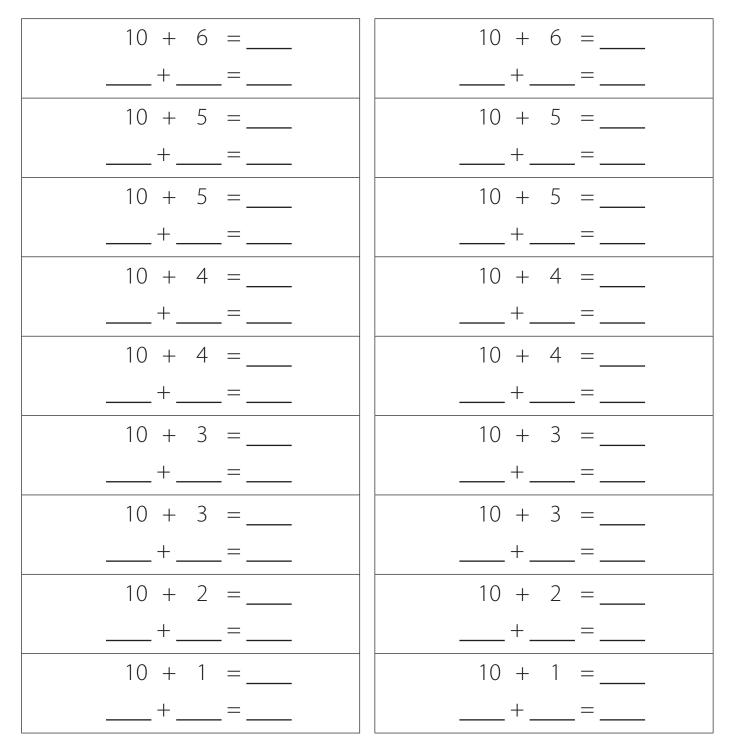
| 11 | 19 | 13 | 15 |
|----|----|----|----|
| 13 | 9 | 17 | 19 |
| 17 | 11 | 15 | 9 |

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

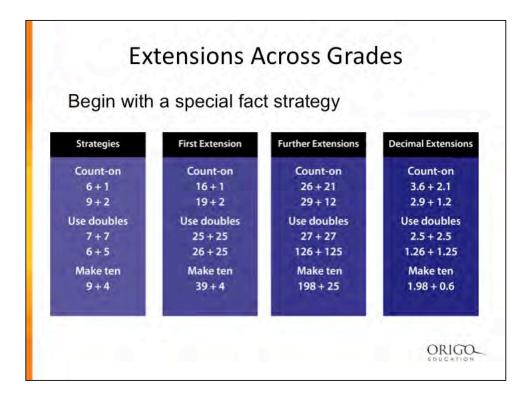
INTRODUCE: Make Ten

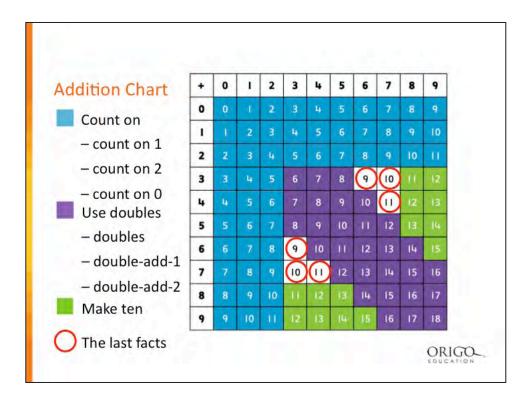
REINFORCE: Make Ten

- 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.



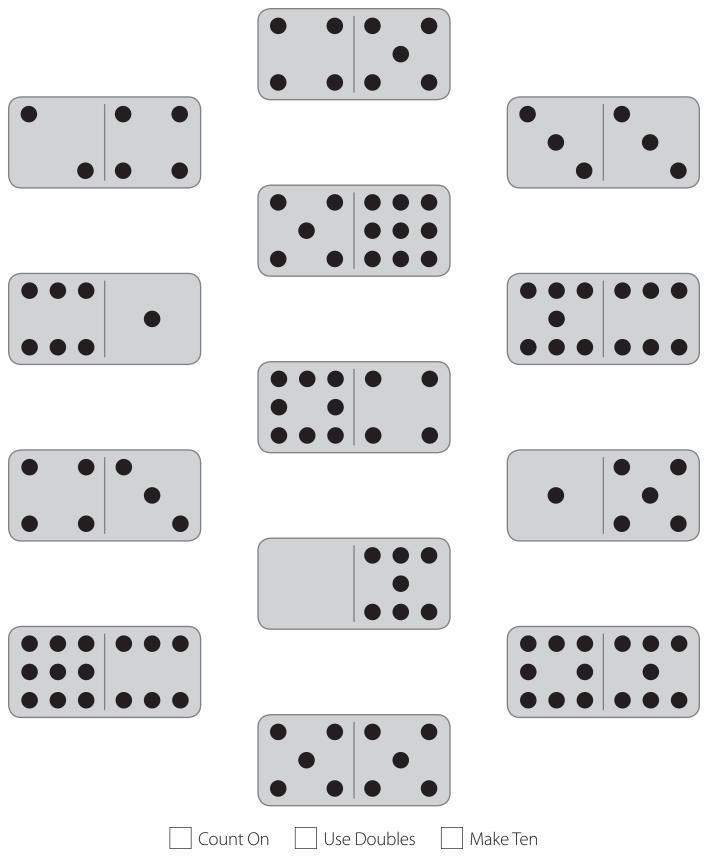
Cube A:8, 8, 8, 8, 9, 9, 9Cube B:3, 4, 5, 5, 6, 7





DOMINO SORT

Sort these dominos according to the addition strategy you would use to calculate the total number of dots.



Cat and Mice

| 5 | <i>.27</i> | 1 | | 5 | . | 1 |
|------|------------------|---|---|---|------------------|------|
| 4 | 3 | 2 | 3 | 4 | 3 | 2 |
| 2 | 1 | 3 | 1 | 2 | 1 | 3 |
| 1 | 4 | 2 | 5 | 3 | 4 | |
| 2 | 1 | 3 | 1 | 2 | 1 | 3 |
| 4 | 1 | 2 | 3 | 4 | 1 | 4 |
| 2 | 3 | 1 | | 5 | 3 | 2 |
| Номе | 4 Номе | 2 | 3 | 2 | 4 номе | Номе |

Materials: 2 standard dice