



Thinking Strategically: Connecting Addition & Subtraction

Conference Presentation
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Take or Tally

Player 1

Player 2

| | |
|--|--|
| $13 - \underline{\quad} = \underline{\quad}$ | $13 - \underline{\quad} = \underline{\quad}$ |
| $12 - \underline{\quad} = \underline{\quad}$ | $12 - \underline{\quad} = \underline{\quad}$ |
| $11 - \underline{\quad} = \underline{\quad}$ | $11 - \underline{\quad} = \underline{\quad}$ |
| $10 - \underline{\quad} = \underline{\quad}$ | $10 - \underline{\quad} = \underline{\quad}$ |
| $9 - \underline{\quad} = \underline{\quad}$ | $9 - \underline{\quad} = \underline{\quad}$ |
| $8 - \underline{\quad} = \underline{\quad}$ | $8 - \underline{\quad} = \underline{\quad}$ |
| Tally | Tally |
| | |

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

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

Number Fact Strategies

Addition

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

Multiplication

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

Double Tens Frame

| | |
|--|--|
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| | |

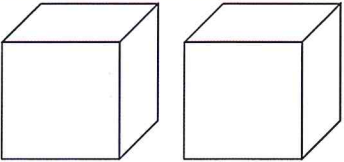
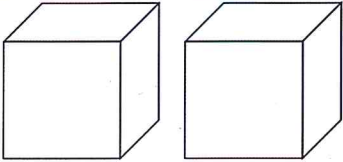
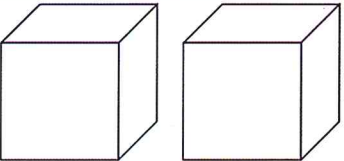
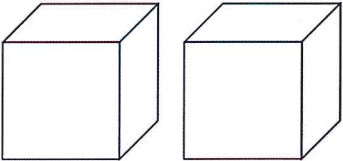
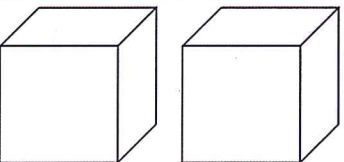
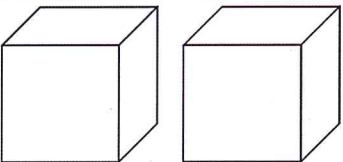
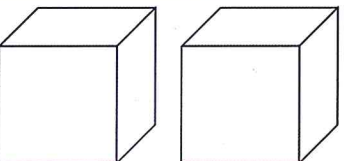
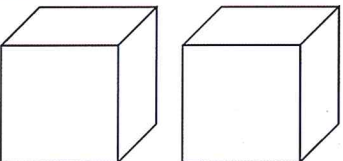
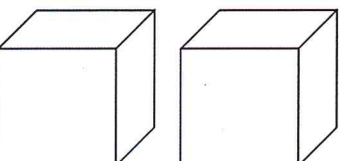
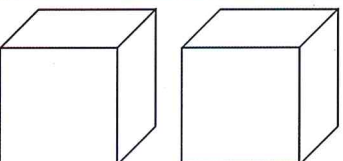
| | |
|--|--|
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| | |







Reinforce: Bridge to 10

| | |
|---|---|
| $10 + 6 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ | $10 + 6 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ |
| $10 + 5 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ | $10 + 5 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ |
| $10 + 5 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ | $10 + 5 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ |
| $10 + 4 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ | $10 + 4 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ |
| $10 + 4 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ | $10 + 4 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ |
| $10 + 3 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ | $10 + 3 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ |
| $10 + 3 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ | $10 + 3 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ |
| $10 + 2 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ | $10 + 2 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ |
| $10 + 1 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ | $10 + 1 = \underline{\quad}$ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ |

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

Reinforce: Count on

| | |
|--|--|
|  ___ + ___ = 11 |  ___ + ___ = 6 |
|  ___ + ___ = 5 |  ___ + ___ = 8 |
|  ___ + ___ = 9 |  ___ + ___ = 7 |
|  ___ + ___ = 8 |  ___ + ___ = 6 |
|  ___ + ___ = 7 |  ___ + ___ = 10 |

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

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 |

Reinforce: Double add 1

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

Cube: 4, 5, 6, 7, 8, 9

Cat and Mice

| | | | | | | |
|-----------|---|-----------|---|-----------|---|-----------|
| 5 |  | 1 |  | 5 |  | 1 |
| 4 | 3 | 2 | 3 | 4 | 3 | 2 |
| 2 | 1 | 3 | 1 | 2 | 1 | 3 |
| 1 | 4 | 2 | 5 | 3 | 4 | 1 |
| 2 | 1 | 3 | 1 | 2 | 1 | 3 |
| 4 | 1 | 2 | 3 | 4 | 1 | 4 |
| 2 | 3 | 1 |  | 5 | 3 | 2 |
| 1 HOME | 4 HOME | 2 HOME | 3 HOME | 2 HOME | 4 HOME | 1 HOME |

Materials: 2 standard dice

Burnett, J. & Tickle, B. (2007). *Fundamentals: Orange Level*, page 34. ORIGO Education.