# Using Mental Math Strategies to Deepen Number Sense

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#### **Why Mental Math**

Mental math...

Develops and solidifies understanding of place value

• Builds a deep understanding of the distributive property

• Develops flexibility with numbers

• It's tons of FUN!

#### **Number String**

Start with the number of days in a leap year, subtract the number of months in a year, subtract the number of days in January, and add the number of days in a week.

#### **Mental Math Strategies**

Make Ten

#### **Subtract from a Ten**

#### **Double Subtraction**

## **Subtract Using Compensation**

## **Fact Fluency**

Fact fluency is the ability to efficiently apply a strategy and/or recall from memory basic facts.

Teach strategies for basic facts. Memorization is not a strategy!

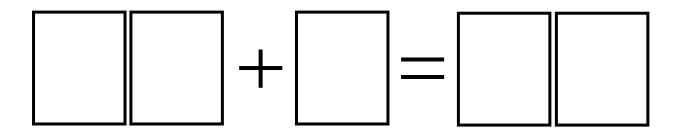
Sample Lesson									
List and build the easy facts for multiplying by 8.									

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### **Multiply by the Closest Ten**

## **Divide using Multiples**

Use the digits 1-9, not more than once in each equation, to make as many correct equations as possible.



0	0	0	0	0	0	0	0
O	0	0	0	0	0	0	0
O	0	0	0	0	0	0	0
O	0	0	0	0	0	0	O
O	0	0	0	0	0	0	O
O	0	0	0	0	0	0	O
O	0	0	0	0	0	0	O
O	0	0	0	0	0	0	O
O	0	0	0	0	0	0	O
0	0	0	0	0	0	0	0