# #255 Using Mental Math Strategies To Deepen Number Sense



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#### **Why Mental Math**

Mental math...

• Develops and solidifies understanding of place value

$$34 \times 40 =$$

• 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

7 + 8 =

7 + 8 =

67 + 8 =

67 + 28 =

197 + 28 =

### **Subtract from a Ten**

### **Double Subtraction**

# **Subtract Using Compensation**

## **Fact Fluency**

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

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

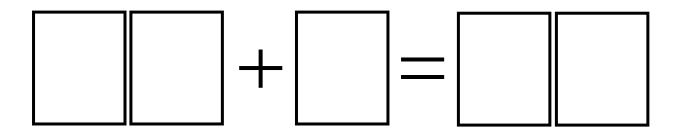
Sample Lesson								
List and build the easy facts for multiplying by 8.								

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	• 7	~,		

## **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