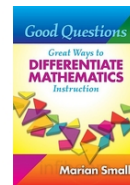


A selection of

Open-ended problems to address and assess number sense, K-7

Taken from Marian Small's book
Good Questions:
Great Ways to Differentiate Mathematics Instruction



Grades K&1

What's important about the number 5? What makes 5 a special number?

Show 7 in as many ways as you can.

Grades 1&2

How are the numbers 10 and 15 alike? How are they different?

*Choose 2 numbers to compare. Tell which is greater and how much greater.
Tell how you know.*

Grades 2&3

The answer is 42. What might the question be?

A 2-digit number has more tens than ones. What might the number be?

Grades 3&4

A number describes how many students are in a school. What might the number be? Why do you think so?

*Create a word problem that can be solved by subtracting 2 large numbers.
Solve the problem, and tell how you subtracted.*

Grades 4&5

You multiply 2 numbers and the product is almost 400. What could the numbers have been?

How are the numbers 350 and 550 alike? How are they different?

Grades 5&6

Create a sentence that uses each of these numbers and words:
21, 84, share, almost

About how many days have you been in school so far? How did you estimate?
What operations did you use?

Grades 6&7

Describe 100 thousand in as many ways as possible.

Fill in the blanks to make this statement true:
72 is ____% of ____.