Classroom desks

Annotation

Hunter can record and solve a multiplicative computation that is presented as a word problem. He understands the connection between a repeated addition statement and a multiplication statement, and he can explain the notation for both.

Problem: Classroom desks

The teacher shows and reads the following problem to the student:

There are three rows of desks with four desks in each row in the classroom. How many desks are there altogether?

Then the teacher asks:

Can you solve this problem and write it as an equation?

Student Response

$$4 + 4 + 4 = 12$$

Teacher: Tell me about what you have written.

Hunter: The fours are the desks in each row. There are three rows, so I wrote "4" three times. I know it's 12 altogether.

Teacher: Can you write this another way?

$$3 \times 4 = 12$$

Teacher: Tell me about what you have written this time.

Hunter: I wrote three lots of 4 or 3 x 4, which equals 12.