Setting Up the Room

Note:
Two Alberta students were given the “Setting Up the Room” question. Both answered it using an additive strategy. These are included as “Initial Responses”. Students were then asked to redo the question using the same numbers they had just chosen. Could they solve it using multiplication instead?

Student A knew the multiplication statement she wanted to use (8 x 7) but did not know the answer. She was encouraged to figure out the answer by breaking the (8 x 7) into easier pieces to work with. She broke them into (8 x 4) and (8 x 3) and solved each question. She ended by adding them together.

Student B started by stating 1 table = 10 chairs; 2 table = 10 chairs...7th table = 10 chairs. Before she added them up, she was asked for a multiplication statement to make it even easier to figure out rather than adding the number 10 up 7 times. She wrote 10 x 7 and solved it.
Setting Up the Room

There are 7 tables in the room. Each table has the same number of chairs. How many chairs do I have? Using pictures, words, numbers and/or symbols, show how you figured it out.

Brain Peek:
When looking at my paper, you can easily see
☐ My answer.
☐ How I figured it out.
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\[
\begin{align*}
8 \times 4 &= 32 \\
8 \times 7 &= 56 \\
3 \times 8 &= 24 \\
24 + 32 &= 56
\end{align*}
\]

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1st table = 10 chairs
2nd table = 10 chairs
3rd table = 10 chairs
4th table = 10 chairs
5th table = 10 chairs
6th table = 10 chairs
7th table = 10 chairs

There is seventy chairs, there are ten chairs at each table.

Brain Peek:
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