

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 (8×7) but did not know the answer. She was encouraged to figure out the answer by breaking the (8×7) into easier pieces to work with. She broke them into (8×4) and (8×3) 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 10×7 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.

$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 24 \\ + 32 \\ \hline 56 \end{array}$$



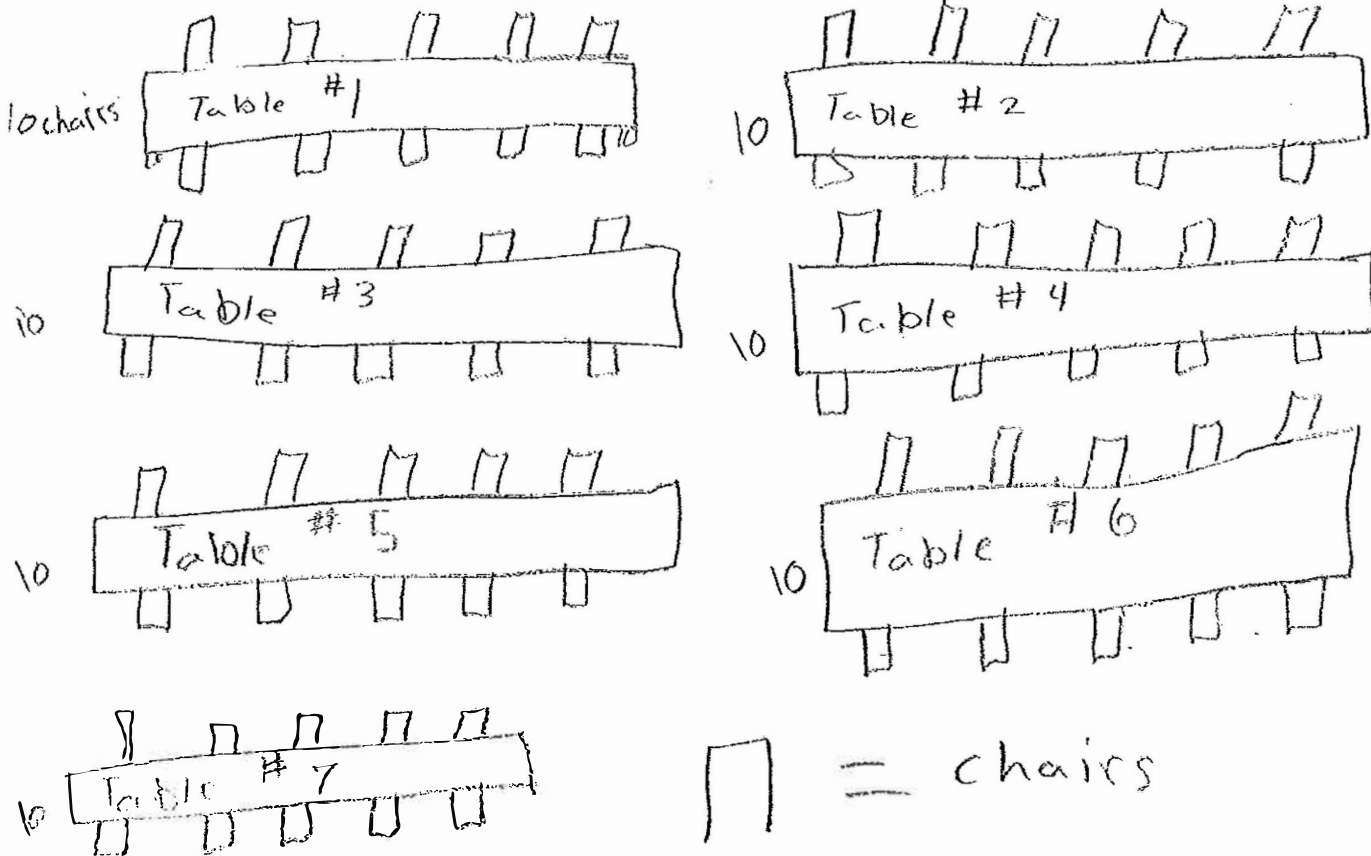
Brain Peek:

When looking at my paper, you can easily see

- My answer.
- How I figured it out.

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.

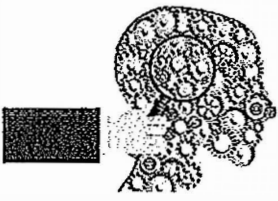


10
10
10
10
10
10
10
70

= tables

10 = 10 chairs.

You have seventy chairs. There are ten chairs at each table.



- Brain Peek:**
When looking at my paper, you can easily see
- My answer.
 - How I figured it out.

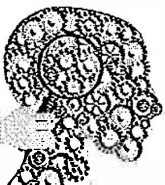
Setting Up the Room

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.

- 1 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

$$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$$

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



Brain Peek:

When looking at my paper, you can easily see

- My answer.
- How I figured it out.