Area Models and Partial Products

Draw a model to represent the product. Then record the product.

1. \(13 \times 42\)
   \[
   \begin{array}{ccc}
   40 & 2 \\
   10 & 400 & 20 \\
   3 & 120 & 6 \\
   \end{array}
   \]
   \[400 + 20 + 120 + 6 = 546\]

2. \(18 \times 34\)

3. \(22 \times 26\)

4. \(15 \times 33\)

5. \(23 \times 29\)

6. \(19 \times 36\)

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7. Sebastian made the following model to find the product \(17 \times 24\).
   \[
   \begin{array}{ccc}
   20 & 4 \\
   10 & 200 & 40 \\
   7 & 14 & 28 \\
   \end{array}
   \]
   \[200 + 40 + 14 + 28 = 282\]

   Is his model correct? Explain.

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8. Each student in Ms. Sike's kindergarten class has a box of crayons. Each box has 36 crayons. If there are 18 students in Ms. Sike's class, how many crayons are there?
Lesson Check (4.NBT.5)

1. What product does the model below represent?

2. What product does the model below represent?

Spiral Review (4.OA.3, 4.NBT.5)

3. Mariah builds a tabletop using square tiles. There are 12 rows of tiles and 30 tiles in each row. How many tiles does Mariah use?

4. Trevor bakes 8 batches of biscuits, with 14 biscuits in each batch. He sets aside 4 biscuits from each batch for a bake sale and puts the rest in a jar. How many biscuits does Trevor put in the jar?

5. Li feeds her dog 3 cups of food each day. About how many cups of food does her dog eat in 28 days?

6. Find the product of $20 \times 9 \times 5$. Tell which property you used.