

MY Homework

Lesson 6

Hands On: Use Partial Products and the Distributive Property

Homework Helper

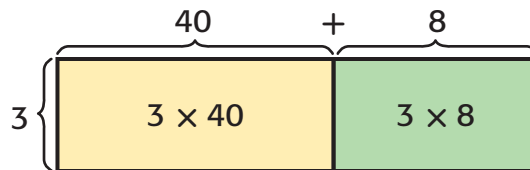


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Consuelo and her two siblings decided to buy a trampoline. They divided the total cost and found that each person needs to pay \$48. What was the total cost for the trampoline?

Find 3×48 using an area model.

1 The model is labeled to show the partial products.



2 Multiply. Then add.

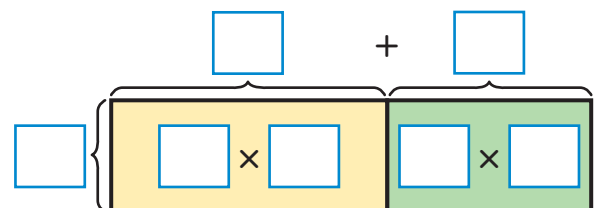
$$\begin{aligned} 3 \times 48 &= (3 \times 40) + (3 \times 8) \\ &= 120 + 24 \\ &= 144 \end{aligned}$$

So, the total cost of the trampoline was \$144.

Practice

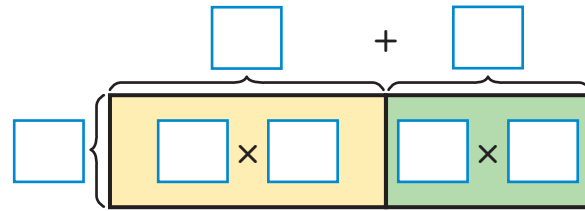
1. Multiply 2×27 using the area model. Label the model.

$$2 \times 27 = \underline{\hspace{2cm}}$$




2. Multiply 9×43 using the area model. Label the model.

$9 \times 43 = \underline{\hspace{2cm}}$



Problem Solving

3. A pet store has eighteen hamsters in each cage. How many hamsters are there in six cages? Use an area model to solve.

4. **Mathematical PRACTICE**  **Model Math** Brandon packs his lunch 4 days each week. How many days does he pack his lunch for 36 weeks? Use an area model to solve.

5. Ricarda earns a \$25 allowance each week. How much allowance will she earn after 7 weeks? Use an area model to solve.

6. Write an expression that uses partial products to multiply 8×64 .

