MY Homework

Homework Helper

eHelp

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Find 4 × 9.

1 **Make an array to model 4 × 9.**

9

4 {
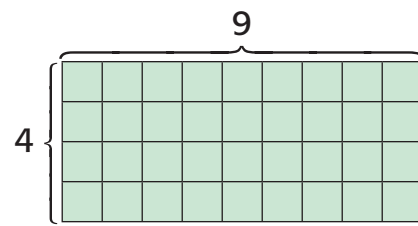
2 Decompose one factor.

Take apart the 9 to make 5 and 4.

5   +   4

4   4
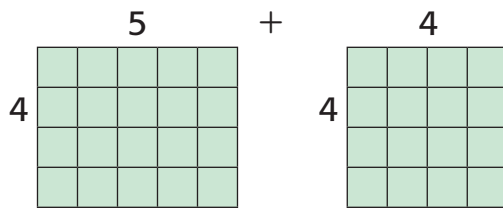
3 Find the product for each part.

$4 \times 9 = (4 \times 5) + (4 \times 4)$
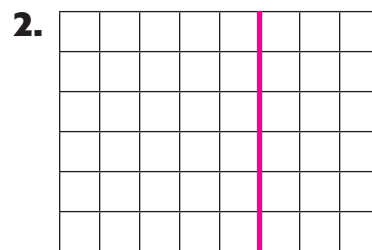
$= 20 + 16$

$= 36$

So, $4 \times 9 = 36$.

Practice   Sample decompositions: 1, 2

Decompose one factor. Color the array two colors to represent your numbers. Then find the product for each part and add.
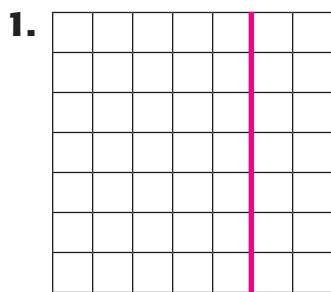
1.

$7 \times 7 = (7 \times \underline{\textbf{5}}) + (7 \times \underline{\textbf{2}})$

$= \underline{\textbf{35}} + \underline{\textbf{14}}$

$= \underline{\textbf{49}}$

2.

$6 \times 8 = (6 \times \underline{\textbf{5}}) + (6 \times \underline{\textbf{3}})$

$= \underline{\textbf{30}} + \underline{\textbf{18}}$

$= \underline{\textbf{48}}$

Decompose one factor. Find each product. Then add. Decompose the fact a different way below. **Sample decompositions: 3, 4**

3. $8 \times 8 = (8 \times \underline{5}) + (8 \times \underline{3})$

$= \underline{40} + \underline{24}$

$= \underline{64}$

Another way:

$8 \times 8 = (8 \times \underline{4}) + (8 \times \underline{4})$

$= \underline{32} + \underline{32}$

$= \underline{64}$

4. $5 \times 7 = (5 \times \underline{5}) + (5 \times \underline{2})$

$= \underline{25} + \underline{10}$

$= \underline{35}$

Another way:

$5 \times 7 = (5 \times \underline{3}) + (5 \times \underline{4})$

$= \underline{15} + \underline{20}$

$= \underline{35}$

Real World Problem Solving

Decompose one factor. Find each product. Then add.

5. **Mathematical PRACTICE 7** **Identify Structure** Orlando's baby sister takes 3 naps a day. How many naps does she take in 9 days?

27 naps

My Work!

6. Carli gets to the bus stop 5 minutes early each morning. How many minutes does she wait at the bus stop in 5 days?

25 minutes

7. Every Monday, Wednesday, and Friday, Mr. Brennan walks 2 miles and jogs 4 miles. What is the total number of miles Mr. Brennan walks and jogs in two weeks?

36 miles