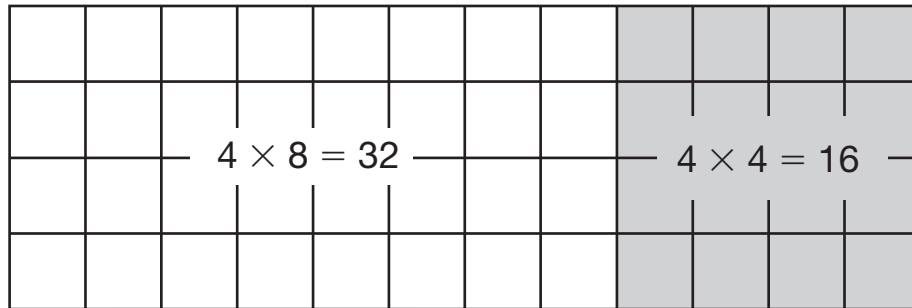


Break Apart



Rosa broke a rectangle apart to find 4×12 . Her solution is shown below.



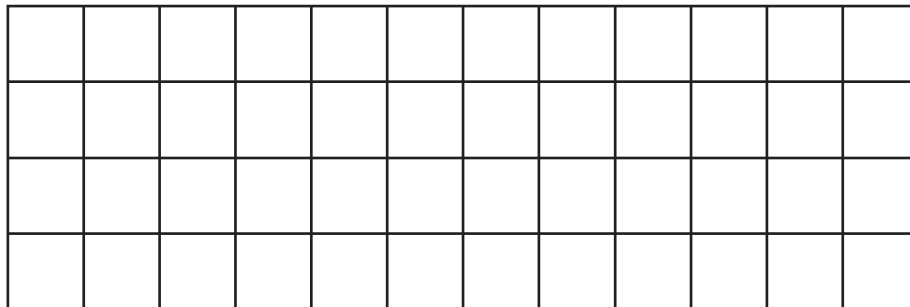
$4 \times 8 = 32$ white squares and $4 \times 4 = 16$ gray squares.

Altogether, there are $4 \times 12 = 4 \times 8 + 4 \times 4$

$$= 32 + 16$$

$$= 48$$

1. Solve the problem by breaking the rectangle apart differently than Rosa. Include number sentences on your rectangles. Complete the number sentence to show your solution.



$$4 \times 12 = \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad}$$

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

2. Find 4×14 by breaking the rectangles apart. Show two different methods. Include number sentences on your rectangles. Complete the number sentences under the rectangles to show your solutions.

A.

$$4 \times 14 = \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad}$$

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

B.

$$4 \times 14 = \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad}$$

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

3. Find the following products by breaking them apart into simpler products. Complete the number sentences to show your solutions.

A.

$$12 \times 6 = \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad}$$

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

B.

$$3 \times 13 = \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad}$$

$$= \underline{\quad} + \underline{\quad}$$

$$= \underline{\quad}$$

C.

$$\begin{aligned}
 14 \times 7 &= \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} \\
 &= \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$

Multiply by Tens

Use any strategy to find the following products. Use the *Multiplication Table* in the *Student Guide* Reference section.

- | | |
|----------------------------|----------------------------|
| 4. $10 \times 4 =$ | 5. $7 \times 20 =$ |
| 6. $3 \times 60 =$ | 7. $5 \times 70 =$ |
| 8. $9 \times 30 =$ | 9. $8 \times 20 =$ |
| 10. $4 \times 40 =$ | 11. $6 \times 80 =$ |
| 12. $7 \times 90 =$ | 13. $5 \times 80 =$ |
| 14. $9 \times 40 =$ | 15. $3 \times 50 =$ |

$3 \times 60 = 180$
 ||||| + ||||| + |||||
 6 tens 6 tens 6 tens
 = 18 tens