1.1 Whole Numbers: Using an Area Model to Explain Multiplication

## AREA PROBLEMS

1. Multiply using a traditional algorithm and an area model.

12
$\times 13$


Draw arrows to show how the partial products of a traditional algorithm and rectangles inside the rectangle of an area model are related.
2. Compute $18 \times 74$ using a traditional algorithm. Multiply using an area model in two different ways.

18
74
$\times$


Draw arrows to show how the partial products of the traditional algorithm and rectangles inside the rectangle of the area models are related.
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## AREA PROBLEMS (continued)

3. Use an area model to compute $135 \times 22$. Check your answer using a traditional algorithm.


Check:
4. Use an area model to compute $602 \times 95$. Check your answer using a traditional algorithm.


Check:
5. Make up a challenging multiplication problem. Use an area model to multiply the numbers. Then check your answer using a traditional algorithm.

