

Instructions

For each of the following multiplication problems, create an area model to represent the multiplication. Break down each number into tens and ones, calculate the area of each rectangle, and then add the areas together for the final product.

Problem 1:

$$4 \times 6$$

Area Model for 4×6

Break down:

Tens: _____ Ones: _____

Calculate areas:

1st rectangle area: _____

2nd rectangle area: _____

Total area (product): _____

Problem 2:

$$12 \times 5$$

Area Model for 12×5

Break down:

Tens: _____ Ones: _____

Calculate areas:

1st rectangle area: _____

2nd rectangle area: _____

Total area (product): _____

Problem 3:

$$23 \times 4$$

Area Model for 23×4

Break down:

Tens: _____ Ones: _____

Calculate areas:

1st rectangle area: _____

2nd rectangle area: _____

Total area (product): _____

Problem 4:

$$15 \times 13$$

Area Model for 15×13

Break down:

Tens: _____ Ones: _____

Calculate areas:

1st rectangle area: _____

2nd rectangle area: _____

Total area (product): _____

Challenge Problem:

$$28 \times 6$$

Area Model for 28×6

Break down:

Tens: _____ Ones: _____

Calculate areas:

1st rectangle area: _____

2nd rectangle area: _____

Total area (product): _____