PRACTICE Makes GENIUS®

2 Digit Multiplication- Area Modeling

Practice Makes Genius-10 Days of Practice: Area Model Multiplication

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Cover art by Math Tutor Tiff
Edited by Math Tutor Tiff LLC

Area Model Multiplication

$$\begin{array}{r} 78 \\ \times \quad 4 \\ \hline 312 \end{array}$$

		Tens	Ones
		70	8
Ones	4	① 280	② 32

1. Break up each number into tens and ones
2. Multiply first box 70 x 4 = 280
3. Multiply second box 8 x 4 = 32
4. Add the boxes

$$\begin{array}{r} 280 \\ + \quad 32 \\ \hline 312 \end{array}$$

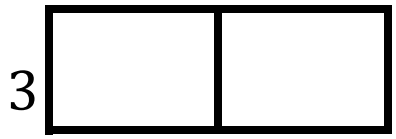
Find the product

(The answers are in the "Answers" section)

Answer

67

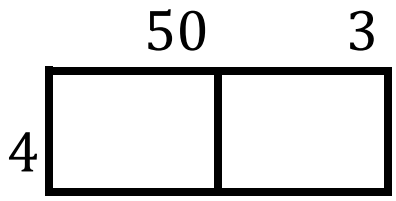
x 3



_____

53

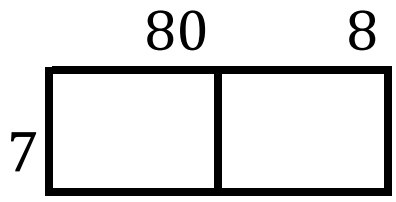
x 4



_____

88

x 7



_____

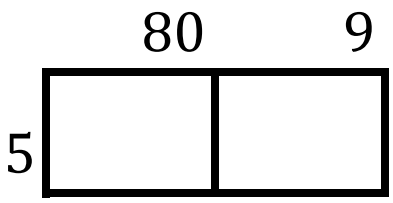
Completed by: _____

Score: _____

Find the product
(The answers are in the "Answers" section)

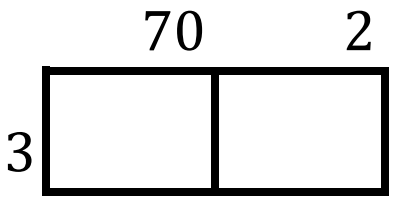
Answer

89 x 5



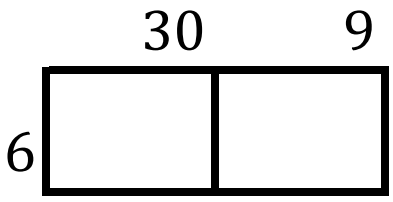
_____

72 x 3



_____

39 x 6



_____

Completed by: _____

Score: _____

Find the product

(The answers are in the "Answers" section)

Answer

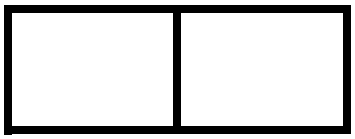
73 x 8	8 × (70 + 3)		_____
54 x 9	9 × (50 + 4)		_____
48 x 4	4 × (40 + 8)		_____

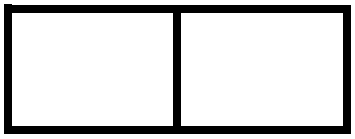
Completed by: _____

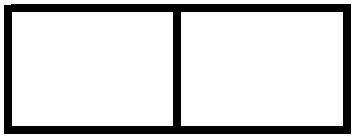
Score: _____

Find the product
(The answers are in the "Answers" section)

Answer

94
x 3 = 

41
x 9 = 

87
x 6 = 

Completed by: _____

Score: _____

Area Model Multiplication

$$\begin{array}{r} 34 \\ \times\ 23 \\ \hline 782 \end{array}$$

		Tens	Ones
		30	4
Tens	20	① 600	② 80
Ones	3	③ 90	④ 12

1. Break up each number into tens and ones
2. Multiply first box 30 x 20 = 600 — 600
3. Multiply second box 4 x 20 = 80 — 80
4. Multiply third box 30 x 3 = 90 — 90
5. Multiply fourth box 4 x 3 = 12 — + 12
6. Add the boxes — 782

Find the product

(The answers are in the "Answers" section)

Answer

62 x 15 =

	60	2
10		
5		

74 x 23 =

	70	4
20		
3		

69 x 34 =

	60	9
30		
4		

Completed by: _____

Score: _____

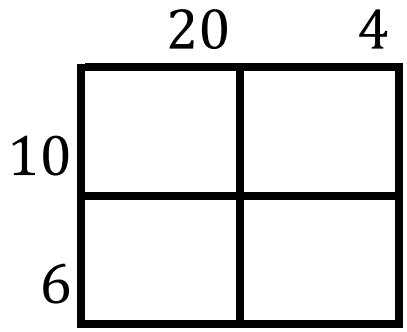
Find the product

(The answers are in the "Answers" section)

Answer

24

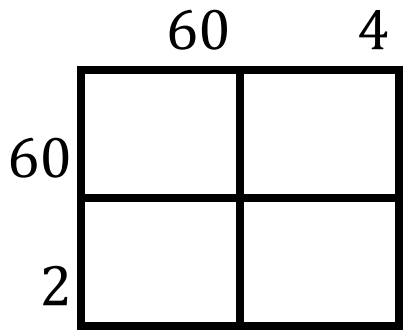
x 16



_____

64

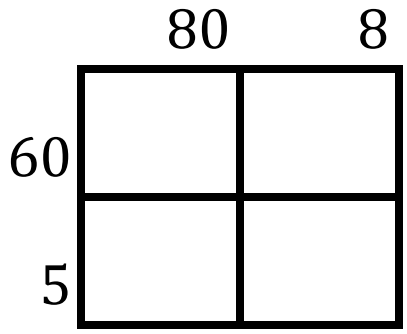
x 62



_____

88

x 65



_____

Completed by: _____

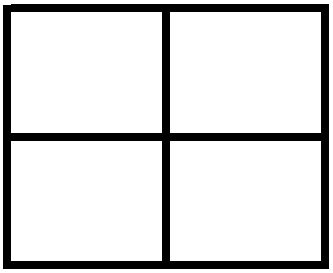
Score: _____

Find the product

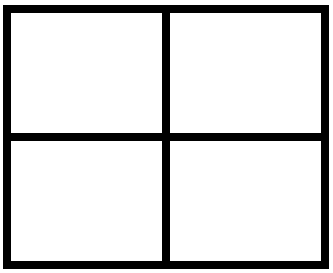
(The answers are in the "Answers" section)

Answer

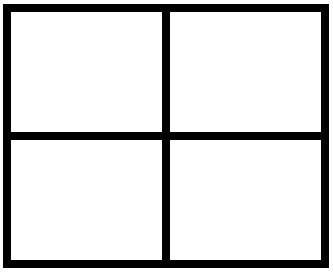
87
x 23



75
x 14



54
x 35



Completed by: _____

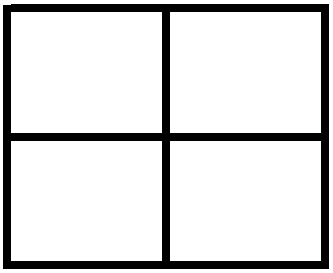
Score: _____

Find the product

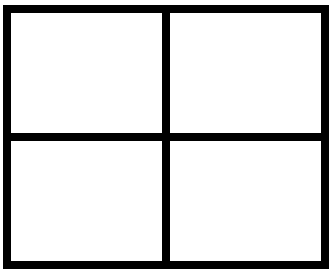
(The answers are in the "Answers" section)

Answer

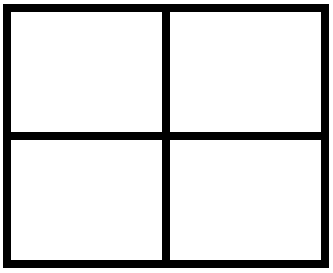
44
x 43



15
x 11



89
x 34



Completed by: _____

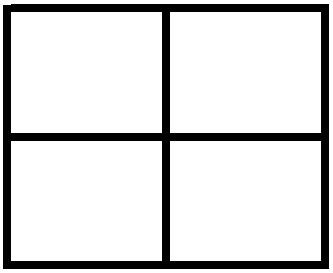
Score: _____

Find the product

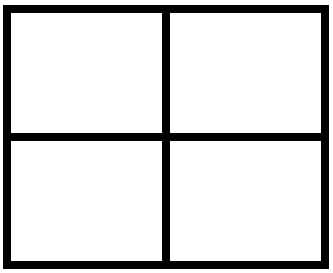
(The answers are in the "Answers" section)

Answer

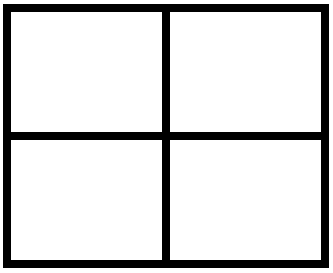
33
x 32



92
x 14



85
x 21



Completed by: _____

Score: _____

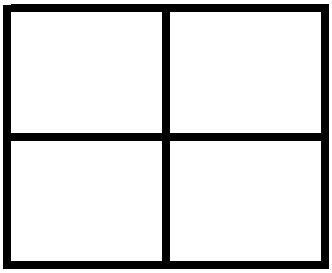
Find the product

(The answers are in the "Answers" section)

Answer

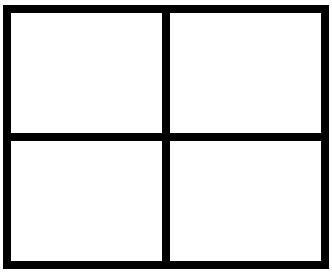
25

x 13



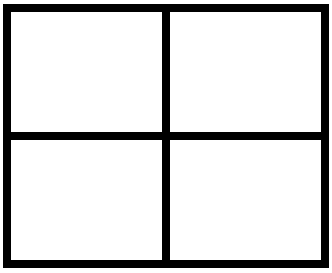
55

x 22



83

x 12



Completed by: _____

Score: _____

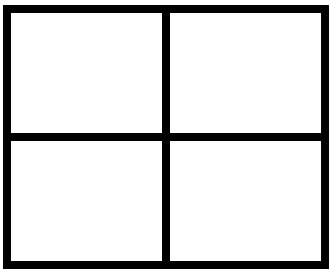
Real World Problem
(The answers are in the "Answers" section)

Brandy is planting a vegetable garden that is 24 feet long and 18 feet wide. She wants to find the total area of her garden. How many square feet does Brandy's garden cover?

Hint: The area of a rectangle is needed. Draw a picture if needed to help solve.

Write Equation:

x _____



_____

Completed by: _____

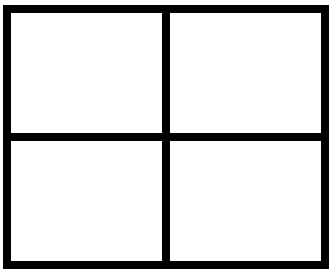
Score: _____

Real World Problem
(The answers are in the "Answers" section)

A sports store wants to sell 32 basketball jerseys for $21 each. How much money will they make if they sell all the jerseys?

Hint: Draw a picture if needed to help solve.

Write Equation:

x  _____

Completed by: _____

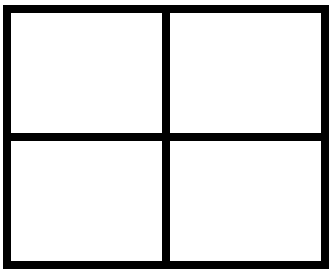
Score: _____

Real World Problem
(The answers are in the "Answers" section)

Your school auditorium wants to know how many people they can invite to the school concert. The auditorium has 36 rows of seats, and each row contains 42 seats. How many total seats are in the auditorium?

Hint: Draw a picture if needed to help solve.

Write Equation:

x  _____

Completed by: _____

Score: _____

Answers

Worksheet 1	67 x 3 =	201	Worksheet 2	89 x 5 =	445
	53 x 4 =	212		72 x 3 =	216
	88 x 7 =	616		39 x 6 =	234
Worksheet 3	73 x 8 =	584	Worksheet 4	94 x 3 =	282
	54 x 9 =	486		41 x 9 =	369
	48 x 4 =	192		87 x 6 =	522
Worksheet 5	62 x 15 =	930	Worksheet 6	24 x 16 =	384
	74 x 23 =	1,702		64 x 62 =	3,968
	69 x 34 =	2,346		88 x 65 =	5,720
Worksheet 7	87 x 23 =	2,001	Worksheet 8	44 x 43 =	1,892
	75 x 14 =	1,050		15 x 11 =	165
	54 x 35 =	1,890		89 x 34 =	3,026
Worksheet 9	33 x 32 =	1,056	Worksheet 10	25 x 13 =	325
	92 x 14 =	1,288		55 x 22 =	1,210
	85 x 21 =	1,785		83 x 12 =	996

Real World Problem 1	24 x 18 =	432
Real World Problem 2	32 x 21 =	672
Real World Problem 3	36 x 42 =	1,512