

Area Model: Times Tens

1 / 8

Multiply. Think in tens.

$$3 \times 40 = \boxed{}$$

40

3



$$5 \times 60 = \boxed{}$$

60

5



$$7 \times 20 = \boxed{}$$

20

7



$$9 \times 80 = \boxed{}$$

80

9



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Area Model: Tens and Ones

2 / 8

Multiply in each box. Add the boxes.

$$3 \times 14$$

10

4

3

--	--

	+		=	
--	---	--	---	--

$$4 \times 23$$

20

3

4

--	--

	+		=	
--	---	--	---	--

$$6 \times 15$$

10

5

6

--	--

	+		=	
--	---	--	---	--

$$7 \times 13$$

10

3

7

--	--

	+		=	
--	---	--	---	--



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Area Model: Label the Parts

3 / 8

Write the tens and ones on top. Multiply in each box. Add the boxes.

$$2 \times 38$$

2		

	+		=	
----------------------	---	----------------------	---	----------------------

$$5 \times 17$$

5		

	+		=	
----------------------	---	----------------------	---	----------------------

$$8 \times 12$$

8		

	+		=	
----------------------	---	----------------------	---	----------------------

$$3 \times 26$$

3		

	+		=	
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Area Model: Split the Rectangle

4 / 8

Split it into tens and ones. Multiply in each box. Add the boxes.

$$4 \times 18$$

4



$$\boxed{} + \boxed{} = \boxed{}$$

$$6 \times 16$$

6



$$\boxed{} + \boxed{} = \boxed{}$$

$$9 \times 11$$

9



$$\boxed{} + \boxed{} = \boxed{}$$

$$2 \times 47$$

2



$$\boxed{} + \boxed{} = \boxed{}$$



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Area Model: Bigger Numbers

5 / 8

Split it into tens and ones. Multiply in each box. Add the boxes.

$$3 \times 52$$

3

--	--	--	--	--	--	--	--	--	--

	+		=	
--	---	--	---	--

$$6 \times 34$$

6

--	--	--	--	--	--	--	--	--	--

	+		=	
--	---	--	---	--

$$7 \times 46$$

7

--	--	--	--	--	--	--	--	--	--

	+		=	
--	---	--	---	--

$$8 \times 27$$

8

--	--	--	--	--	--	--	--	--	--

	+		=	
--	---	--	---	--



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Area Model: Bigger Numbers

6 / 8

Split it into tens and ones. Multiply in each box. Add the boxes.

$$4 \times 63$$

4

A large empty rectangle for the area model of 4 x 63.

$$\boxed{} + \boxed{} = \boxed{}$$

$$5 \times 48$$

5

A large empty rectangle for the area model of 5 x 48.

$$\boxed{} + \boxed{} = \boxed{}$$

$$9 \times 35$$

9

A large empty rectangle for the area model of 9 x 35.

$$\boxed{} + \boxed{} = \boxed{}$$

$$7 \times 58$$

7

A large empty rectangle for the area model of 7 x 58.

$$\boxed{} + \boxed{} = \boxed{}$$



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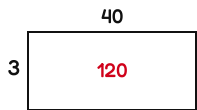
Area Model Multiplication: Answer Key

7 / 8

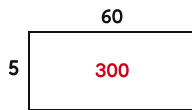
For the grown-up. Each red number sits where your child writes it.

Page 1

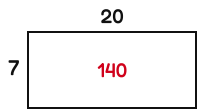
$3 \times 40 = 120$



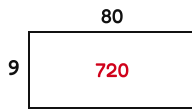
$5 \times 60 = 300$



$7 \times 20 = 140$

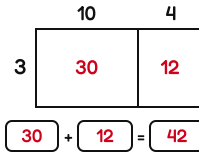


$9 \times 80 = 720$

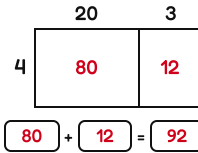


Page 2

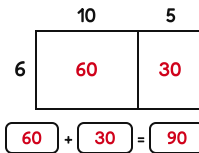
3×14



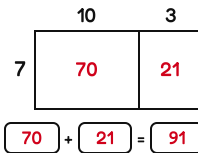
4×23



6×15

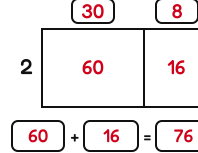


7×13

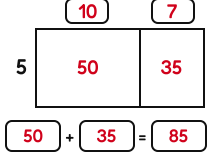


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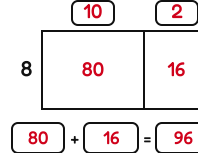
2×38



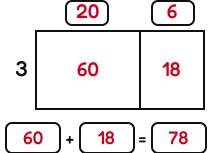
5×17



8×12

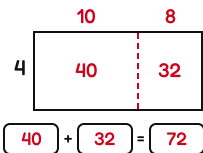


3×26

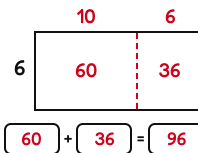


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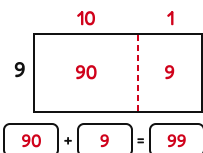
4×18



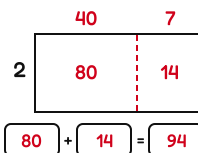
6×16



9×11

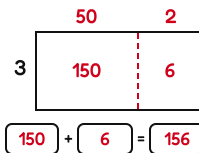


2×47

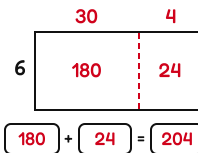


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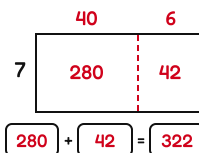
3×52



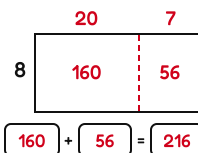
6×34



7×46

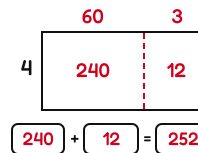


8×27

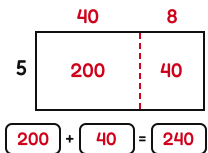


Page 6

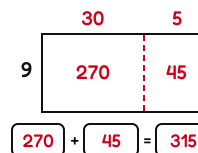
4×63



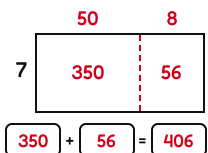
5×48



9×35



7×58



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For Grown-Ups: How to Use These Worksheets 8 / 8

One page at a time, with a pencil, from third grade.

Why use it

An area model splits one hard multiplication into two easy ones. For 7×13 , the boxes hold $7 \times 10 = 70$ and $7 \times 3 = 21$, so the answer is $70 + 21 = 91$. Your child sees why the answer is right, not only how to get it.

What it is good for

- Multiplying by tens, such as 4×30 , which every tens box needs.
- One-digit by two-digit multiplication within 100, for a Common Core third grader.
- Answers past 100 on the last two pages, for Texas third graders and fourth graders.

How to use it

1. On page 1, say each problem in tens: 7×20 is 7 times 2 tens, which is 14 tens, or 140.
2. On the other pages, split the bigger number into tens and ones: 34 is 30 and 4. Write 30, never 3.
3. Multiply in each box and write the answer inside it.
4. Add the two boxes on the line underneath for the answer.
5. Check with the answer key. Each red number sits where your child writes it.

Try saying: “What does this box mean? 6 times 30. So how many is 6 times 3 tens?”

Tip: The boxes are not drawn to scale. The tens box is always the wider one, and the numbers do the work.



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