LESSON MAKER PRO

Multiply in Parts

Split, multiply, and add.

GRADE 3 · 3.N.2.8

3.N.2.8 "Use various strategies (e.g., base ten blocks, area models, arrays, repeated addition, algorithms) based on knowledge of place value, equality..."

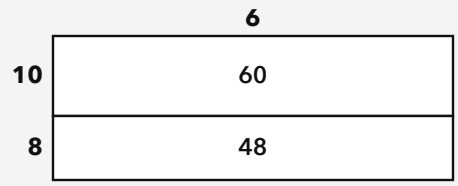
NAME _____ DATE _____

THE BIG IDEA

Split a two-digit number into tens and ones. Multiply each part by the one-digit number, then add the products.

WORKED EXAMPLE

What product does the model show?



1. 10 x 6 = 60
2. 8 x 6 = 48
3. 60 + 48 = 108

Answer: 108

PRACTICE 4 problems

1 14 x 2 = ___

ANSWER _____

2 23 x 4 = ___

ANSWER _____

3 35 x 7 = ___

ANSWER _____

4 46 x 8 = ___

ANSWER _____

APPLY IT Show your work

1 A game booth gives each winner the same number of tickets. The model shows all the tickets given out. How many tickets are given out?

	4
20	80
9	36

ANSWER _____

2 Five friends each read 32 pages of a comic. How many pages do they read in all?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Mia only multiplied the tens in the model. What part did she miss? Find the full product.

	9
40	360
7	63

WORK SPACE AND ANSWER

ANSWER KEY

Multiply in Parts

GRADE 3 · 3.N.2.8

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	14 x 2 = ___	**28**
2	23 x 4 = ___	**92**
3	35 x 7 = ___	**245**
4	46 x 8 = ___	**368**

PART 2 · APPLY IT

1. **116 tickets** Multiply 20 x 4 = 80 and 9 x 4 = 36. Add 80 + 36 = 116.
2. **160 pages** Multiply 30 x 5 = 150 and 2 x 5 = 10. Add 150 + 10 = 160.

CHALLENGE

She missed 7 x 9 = 63. The full product is 423.

Accept other correct methods, such as repeated addition or a written multiplication algorithm. For the challenge, the explanation must include the missing ones product.