LESSON MAKER PRO

Multiply in Parts

Use area models to multiply two-digit numbers.

GRADE 3 · 3.N.2

3.N.2 "Solve real-world and mathematical problems using addition, subtraction, multiplication, and division. Represent multiplication facts by modeling a variety of approaches (e.g., manipulatives, repeated addition, equal-sized groups, arrays…"

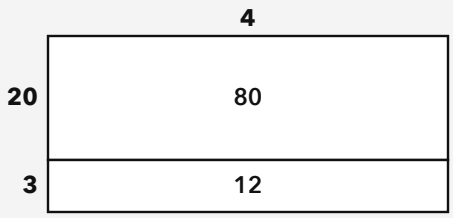
NAME _____ DATE _____

BREAK IT APART

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

WORKED EXAMPLE

Use the model to find the total.



1. 20 × 4 = 80
2. 3 × 4 = 12
3. 80 + 12 = 92

Answer: 92

PRACTICE 4 problems

1 14 × 3 = ___

ANSWER _____

2 26 × 4 = ___

ANSWER _____

3 38 × 2 = ___

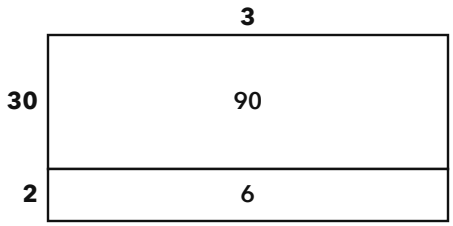
ANSWER _____

4 47 × 5 = ___

ANSWER _____

APPLY IT Show your work

1 The model shows how many stickers a club packed. How many stickers did it pack?



ANSWER _____

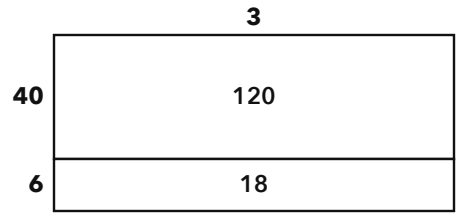
2 A classroom has 6 packs of 24 crayons. How many crayons are there?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The model shows tickets sold in the morning. The class sells 15 more tickets later. How many tickets does it sell in all?



WORK SPACE AND ANSWER

ANSWER KEY

Multiply in Parts

GRADE 3 · 3.N.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	14 × 3 = ___	**42**
2	26 × 4 = ___	**104**
3	38 × 2 = ___	**76**
4	47 × 5 = ___	**235**

PART 2 · APPLY IT

1. **96 stickers** 30 × 3 = 90 and 2 × 3 = 6. Add to get 96 stickers.
2. **144 crayons** Multiply 20 × 6 = 120 and 4 × 6 = 24. Add to get 144 crayons.

CHALLENGE

153 tickets

Accept any correct multiplication strategy. For the challenge, the model shows 138 tickets, and 138 + 15 = 153.