

Multiply by 2-Digit Numbers

A library ordered 17 cases with 24 books in each case. In 12 of the cases, 18 books were fiction books. The rest of the books were nonfiction. How many nonfiction books did the library order?

Read the Problem	Solve the Problem
What do I need to find? I need to find <u>how many nonfiction books</u> were ordered.	<ul style="list-style-type: none"> First, find the total number of books ordered. $17 \times 24 = 408$ books ordered Next, find the number of fiction books. $12 \times 18 = 216$ fiction books Last, draw a bar model. I need to subtract.
What information do I need to use? <u>17</u> cases of <u>24</u> books each were ordered. In <u>12</u> cases, <u>18</u> books were fiction books.	<div style="border: 1px solid black; padding: 5px; margin: 10px 0; width: fit-content;">408 books ordered</div> <div style="border: 1px solid black; padding: 5px; margin: 10px 0; width: fit-content;">216 fiction books</div> <div style="border: 1px solid black; padding: 5px; margin: 10px 0; width: fit-content;">?</div>
How will I use the information? I can find the <u>total number of books ordered</u> and the <u>number of fiction books ordered</u> . Then I can draw a bar model to compare the <u>total number of books</u> to the <u>number of fiction books</u> .	$408 - 216 = 192$ So, the library ordered <u>192</u> nonfiction books.

1 A grocer ordered 32 cases with 28 small cans of fruit in each case. The grocer also ordered 24 cases with 18 large cans of fruit in each case. How many more small cans of fruit did the grocer order?

2 Rebecca rode her bike 16 miles each day for 30 days. Michael rode his bike 25 miles for 28 days. Who rode farther? How much farther?
