

# Multi-Step Multiplication Problems

Use the strategy *draw a diagram* to solve a multistep multiplication problem.

Amy planted 8 rows with 18 tulips in each row. In each of the 4 middle rows, there are 4 red tulips. All of the other tulips are yellow. How many of the tulips are yellow tulips?

Read the Problem	Solve the Problem
<p><b>What do I need to find?</b></p> <p>I need to find the total number of <u>yellow</u> tulips.</p>	<p>I drew a diagram for each color of tulip.</p> <div style="text-align: center;"> </div> <p>Next, I found the number in each section.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>All Tulips</b></p> <p><math>8 \times 18 = 144</math></p> </div> <div style="text-align: center;"> <p><b>Red Tulips</b></p> <p><math>4 \times 4 = 16</math></p> </div> </div> <p>Last, I subtracted the number of red tulips from the total number of tulips.</p> <p><math>144 - 16 = 128</math></p> <p>So, there are <u>128</u> yellow tulips.</p>
<p><b>What information do I need to use?</b></p> <p>There are <u>8</u> rows of tulips with <u>18</u> tulips in each row.</p> <p>There are <u>4</u> rows of tulips with <u>4</u> red tulips in each row.</p>	
<p><b>How will I use the information?</b></p> <p>I can <u>multiply</u> to find the total number of tulips and the number of red tulips.</p> <p>Then I can <u>subtract</u> to find the number of yellow tulips.</p>	

- 1** A car dealer has 8 rows of cars with 16 cars in each row. In each of the first 3 rows, 6 are used cars. The rest of the cars are new cars. How many new cars does the dealer have?
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- 2** An orchard has 4 rows of apple trees with 12 trees in each row. There are also 6 rows of pear trees with 15 trees in each row. How many apple and pear trees are in the orchard?
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