### Third grade

### Chapter 5

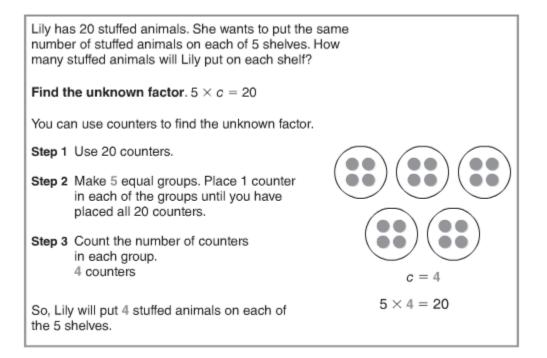
### 5.1

### Algebra describe patterns

The table shows the number of candles in different numbers of packs. How many candles will be in 4 packs?	Packs 1 2 3 4   Candles 2 4 6	
Describe a pattern in the columns.		
Step 1 Look for a pattern by comparing the columns in the table. You can multiply the number of packs by 2 to find the number of candles in all.	$1 \times 2 = 2$ $2 \times 2 = 4$ $3 \times 2 = 6$	
Multiply by 2 candles for each pack.		
Step 2 Use the pattern to find the number of candles in 4 packs. $4 \times 2 = 8$		
So, there are 8 candles in 4 packs.		

## 5.2

### Algebra-find unknown factors



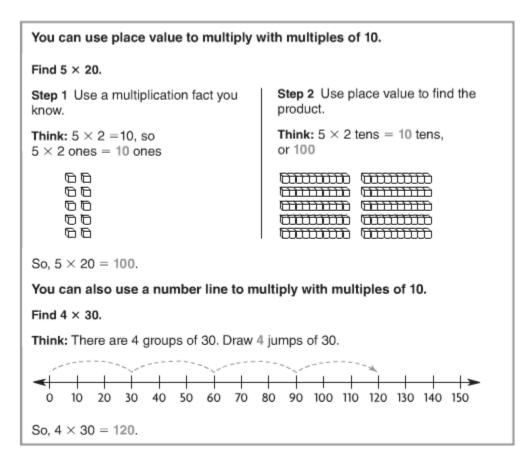
# Problem solving using the distributive property

There are 6 rows of singers in a performance. There are 20 singers in each row. How many singers are in the performance?

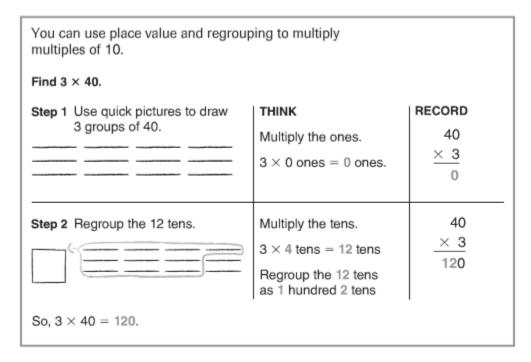
Read the Problem	Solve the Problem
What do I need to find? I need to find how many singers are	Record the steps you used to solve the problem.
in the performance What information do I need to use?	10 + 10 6 60 60 60
There are <u>6</u> rows of singers. Each row has <u>20</u> singers.	First, I draw and label a diagram to show <u>6</u> rows of <u>20</u> singers.
How will I use the information? I can draw a diagram and use the Distributive Property to break apart the factor 20 into 10 + 10 to use facts I know.	Next, I break apart 20 into $10 + 10$ and find the products of the two smaller rectangles. $6 \times 10 = \_$ $6 \times 10 = \_$ Then, I find the sum of the two products. $\_$ $+$ $\_$ $=$ $\_$ $6 \times 20 =$ $\_$
	So, there are singers.

### 5.3

Multiplication strategies with multiples of 10



Multiply multiples of 10 by 1-digit numbers



5.5