

Problem Solving:

Draw a Picture

Read and Understand

Janie is in the fourth row of the marching band. There are 7 rows of musicians with 8 in each row. How many musicians are ahead of Janie? How many musicians are behind Janie?

You need to find how many are ahead of Janie and behind Janie.

Plan and Solve

You can **draw a picture** of the musicians: Write an A for each musician ahead of Janie, a B for each musician behind Janie, and a J for each musician in Janie's row.

A	A	A	A	A	A	A	A	}	3 × 8 = 24 musicians ahead of Janie
A	A	A	A	A	A	A	A		
A	A	A	A	A	A	A	A		
J	J	J	J	J	J	J	J	}	8 musicians in Janie's row
B	B	B	B	B	B	B	B	}	3 × 8 = 24 musicians behind Janie
B	B	B	B	B	B	B	B		
B	B	B	B	B	B	B	B		

Check

How many musicians are there in all? You can multiply $7 \times 8 = 56$ musicians or add $24 + 8 + 24 = 56$ musicians.

Draw a picture to solve each problem.

1. Ahmed has 12 seashells mounted in a row. The 6 shells in the center of the row are nautilus shells. How many shells are there on each side of the nautilus shells? _____

2. Howard and Marla are in a marching band. Howard is in the fourth row and Marla is in the eighth row. There are 14 rows with 7 musicians per row. How many musicians are lined up between Howard's row and Marla's row? _____