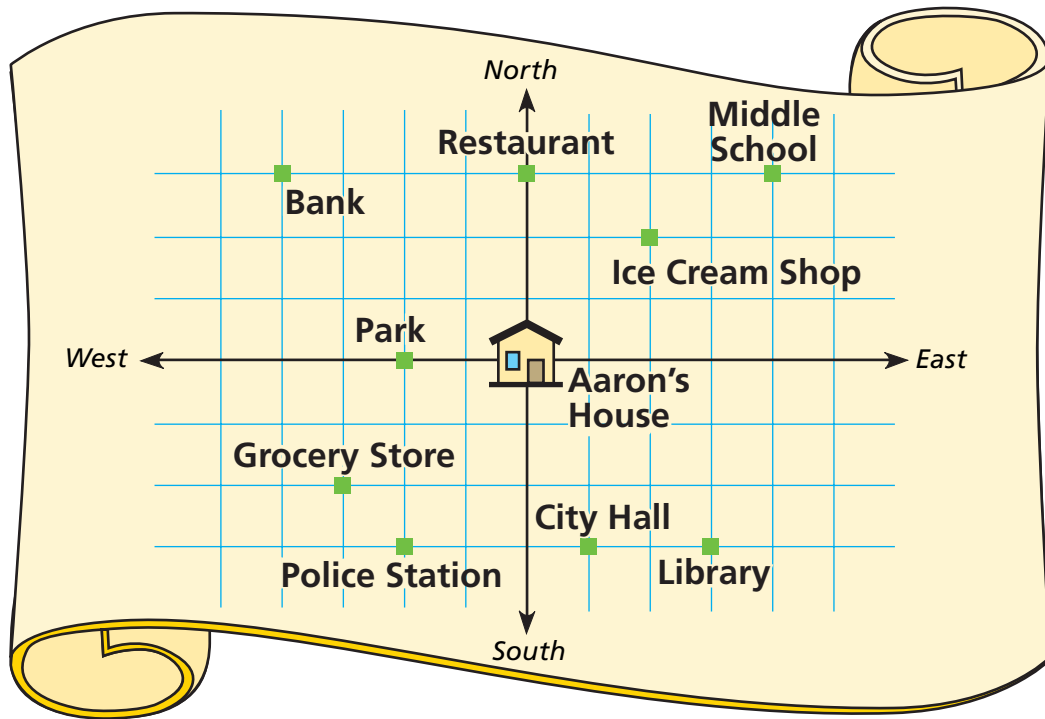


Navigating on a Coordinate Grid

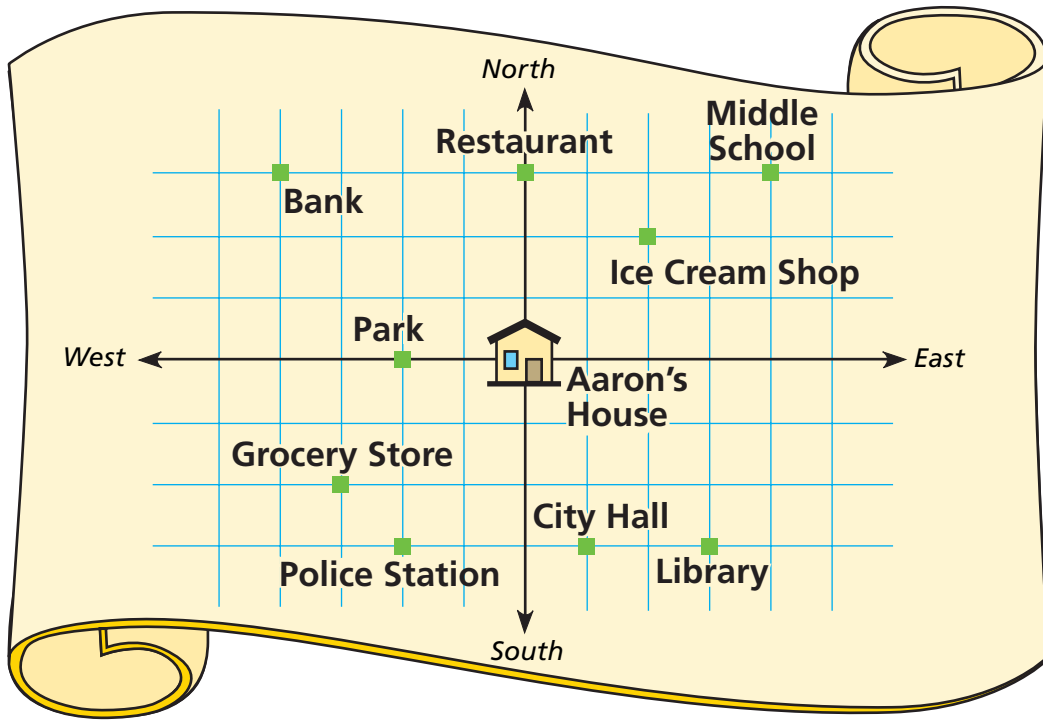
NCTM Standards 1, 4, 6, 7, 8, 9, 10

Aaron's house is in the center of the map. The lines on the map are the streets in his neighborhood.



Aaron is new in town. He started making some cards to remind him how to get to different places from his house. Because the streets in town form a grid, he recorded each building the way mathematicians would. Complete each card.

1 School (4,3)	2 Library (3,-3)	3 Bank (____,____)	4 Grocery Store (-3,-2)	5 Home (0,____)
6 Ice Cream shop (____,____)	7 Park (____,0)	8 Restaurant (____,____)	9 _____ (1,-3)	10 Police Station (____,____)



Some of the places Aaron likes to go are not printed on the map.

11 Aaron's sister goes to high school. Draw a star on the map to show where the high school is.

★	High School
	(5,3)

12 Sometimes Aaron visits his friend Mark. Draw a triangle on the map to show where Mark's house is.

▲	Mark's House
	(-5,-3)

In these questions, "How far" always means "How many blocks, walking along the streets."

- 13** How many blocks is the middle school from the restaurant? _____
- 14** How many blocks is Aaron's home from the park? _____
- 15** How far is City Hall from the library? _____
- 16** How far is the police station from City Hall? _____
- 17** How far is Mark's house from the library? _____
- 18** How far is the police station from the park? _____
- 19** How far is the bank from the middle school? _____
- 20 Challenge** How many blocks is the shortest route from the high school to Mark's house? _____