

# 7.NS Distances Between Houses

## Task

Aakash, Bao Ying, Chris and Donna all live on the same street as their school, which runs from east to west.

- Aakash lives  $5\frac{1}{2}$  blocks to the west.
  - Bao Ying lives  $4\frac{1}{4}$  blocks to the east.
  - Chris lives  $2\frac{3}{4}$  blocks to the west.
  - Donna lives  $6\frac{1}{2}$  blocks to the east.
- a. Draw a picture that represents the positions of their houses along the street.
  - b. Find how far is each house from every other house?
  - c. Represent the relative position of the houses on a number line, with the school at zero, points to the west represented by negative numbers, and points to the east represented by positive numbers.
  - d. How can you see the answers to part (b) on the number line? Using the numbers (some of which are positive and some negative) that label the positions of houses on the number line, represent these distances using sums or differences.

