

## Word Problem Information Sheet

If you choose to act out your problem on the number line at the front of the class, you can use these measurements to program Dash.

$\frac{1}{2}$  corresponds to 60 cm on the number line  
 $\frac{1}{3}$  corresponds to 40 cm on the number line  
 $\frac{1}{4}$  corresponds to 30 cm on the number line  
 $\frac{1}{6}$  corresponds to 20 cm on the number line  
 $\frac{1}{12}$  corresponds to 10 cm on the number line

If you are having trouble writing the right Blockly code, start by doing any calculations you will need to model the fraction in the word problem. Next, write down what you want Dash to do in your own words. Then translate your words into straight-forward actions that Dash can understand.

### Example:

Dash lives 4 blocks from school. Each block is  $\frac{2}{3}$  of a mile long. How many miles from school does Dash live?

*Calculation:*  $\frac{1}{3}$  corresponds to 40 cm on the number line.

$\frac{2}{3}$  corresponds to  $2 \cdot 40 \text{ cm} = 80 \text{ cm}$  on the number line.

*Words:* I want to make Dash move  $\frac{2}{3}$  units 4 times.

*Actions:* When the top button is pressed, move 80 cm. Press the button 4 times.

