

Challenge 1: Stop light

1. Make Dash turn **yellow**.



2. Make Dash turn **red**.



3. Make Dash turn **green**.

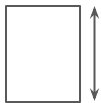


4. Make Dash drive $35 + 63 = \underline{\quad\quad}$ cm.
Round to the nearest 10.



Challenge 2: Books

1. Find and measure two books.

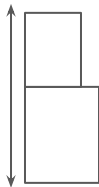


Book 1: _____ cm



Book 2: _____ cm

2. Put the books next to each other. What is the **total** length?



_____ cm + _____ cm = _____ cm

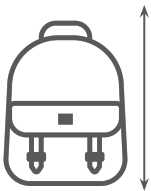
3. Program Dash to drive past both books. You might need to *round* to the nearest 10.

Forward



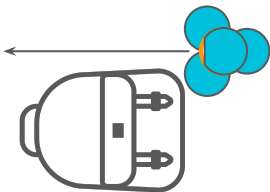
Challenge 3: Backpack

1. Grab the backpack of one person in your group. Measure the height of the backpack.



The backpack is _____ cm tall.

2. Program Dash to drive the height of the backpack.

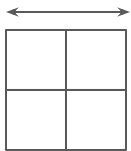


3. How much **further** would Dash need to drive in order to go 120 cm all together?

$$\underline{\quad\quad} \text{ cm} + \underline{\quad\quad} \text{ cm} = 120 \text{ cm}$$

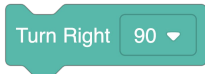
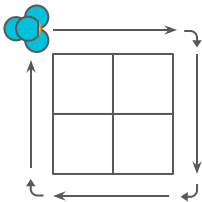
Challenge 4: Square

1. Find a **2 by 2** square in the tiles on the floor and measure the sides.



Each side is _____ cm.

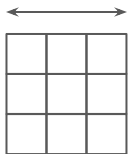
2. Program Dash to drive around the *perimeter* of the square.



Use this each time
you want to turn
a corner

Challenge 5: Loopy Square

1. Find a **3 by 3** square in the tiles on the floor and measure the sides.



Each side is _____ cm.

2. Program Dash to drive around the *perimeter* of the square. This time, use **only** 3 blocks:

