

TIPP&SEE

Getting Mack Home

NAME		
Lesson 5-7B		
SCRATCH ID	DATE	TIME

Objective: I can use the repeat block when I know the distance to the intended location.

Scratch Link: Getting Mack Home (<https://scratch.mit.edu/projects/210105463/>)

Start with **TIPP&SEE!**

Get a **TIPP** from the Project Page.


Read carefully:

Title

Instructions

Purpose

Play the project and circle or write down the action(s) that happened for each question below.

① When I clicked , the number line was divided into:

halves thirds fourths fifths sixths sevenths eighths ninths tenths

② The puddle was located at:

$\frac{3}{8}$

$\frac{5}{6}$

$\frac{5}{8}$

$\frac{1}{2}$

$\frac{3}{4}$

④ What did the dog Mack do? _____

⑤ How much further should Mack walk to get home?

$\frac{3}{8}$

$\frac{5}{6}$

$\frac{5}{8}$

$\frac{1}{2}$

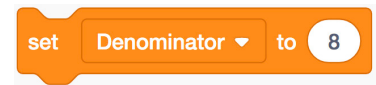
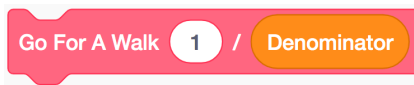
$\frac{3}{4}$

⑥ Write a fraction number sentence for this problem. _____

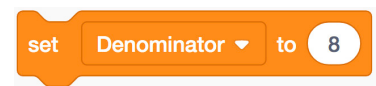
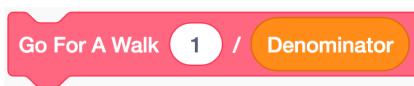
SEE Inside. First click on the Mack Sprite, then find the  **Event**.

⑦ **Explore:** Circle your answers.

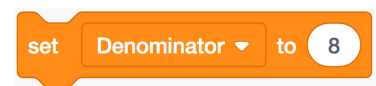
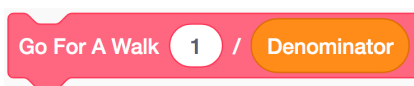
a. This block determines how many equal parts the line gets divided into:



b. This block makes Mack walk forward one tick mark:



c. This block determines how many tick marks Mack walks:



TIPP&SEE

Getting Mack Home (con't)

Explore: Help Mack get home!

NAME

Lesson 5-7B

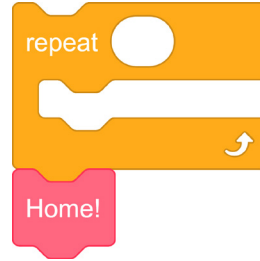


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- ⑧ Find these blocks and add them to the starting script:



- ⑨ Make changes to the script so that Mack walks home after stepping in the puddle. Think:
- What step (block) does Mack have to repeat a few more times to get home?
Where in my script should I put that block?*
 - How many times does Mack have to repeat that step (block) to get home?
Where in my script can I enter that number?*

Shuffle Puddle

NAME _____		
Lesson 5-7B 		
SCRATCH ID _____	DATE _____	TIME _____

Objective: I can use the repeat until block.

Scratch Link: Getting Mack Home (<https://scratch.mit.edu/projects/210105463/>)

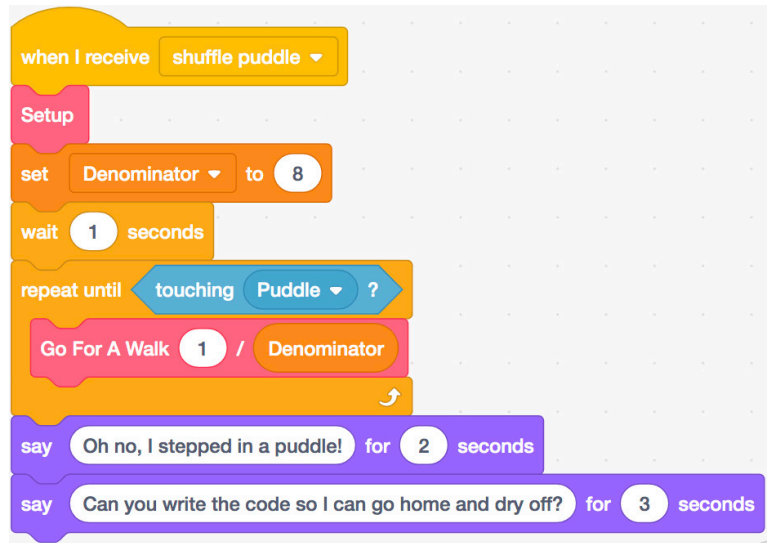
Press the Shuffle Puddle button and observe the project run again. (Do this at least twice.)

① How does the project run differently from when you pressed the green flag? _____

SEE Inside. Click on the Mack sprite, then find the **when I receive shuffle puddle** event.

Look at the first part of this script.

Then answer the questions below.



```
when I receive shuffle puddle
  Setup
  set Denominator to 8
  wait 1 seconds
  repeat until touching Puddle ?
    Go For A Walk 1 / Denominator
  say Oh no, I stepped in a puddle! for 2 seconds
  say Can you write the code so I can go home and dry off? for 3 seconds
```

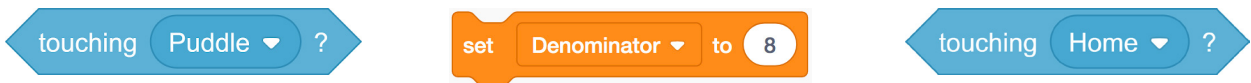
② Where does Mack stop walking? _____

③ What causes Mack to stop walking? _____

Now think about how to help Mack walk the rest of the way home.

④ When do you want Mack to stop walking during the second part of his walk? _____

⑤ Which block do you think you could use to tell Mack when to stop?



⑥ Which repeat block can you use with the block you circled in Problem 5?



Shuffle Puddle (con't)

NAME

Lesson 5-7B

SCRATCH ID

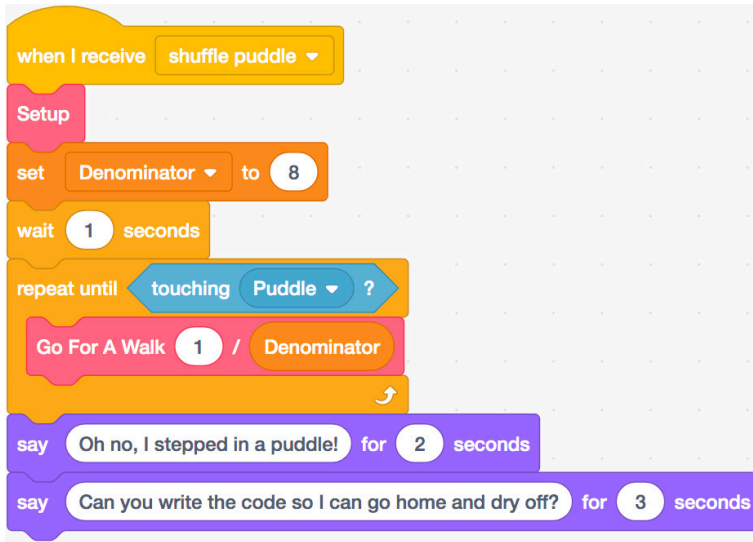
DATE

TIME

- ⑦ Add to the script to help Mack walk home.

Then press the  button to test your script.

When your script is finished and working, remix, share, and draw your additions to the starting script below.



```
when I receive shuffle puddle
  Setup
  set Denominator to 8
  wait 1 seconds
  repeat until touching Puddle ?
    Go For A Walk 1 / Denominator
  say Oh no, I stepped in a puddle! for 2 seconds
  say Can you write the code so I can go home and dry off? for 3 seconds
```