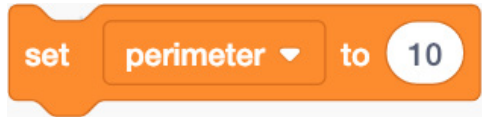


G4 Early Assessment

NAME		
		
SCRATCH ID	DATE	TIME

In Problems 1 and 2, circle True or False.

① In this Scratch block , "perimeter" is a variable. True False

② A computer program cannot be broken down into smaller parts. True False

③ A formula for calculating the perimeter of a rectangle is $perimeter = length + width + length + width$.

In this formula, which word do we use to describe *length*?

- a. Loop
- b. Sprite
- c. Variable
- d. Block

④ Fill in the blanks to make conditional statements that are valid.

- a. If _____, then put on a jacket.
- b. If I see a spider, then _____.

⑤ Which statement is a conditional?

- a. If number is 10, then say "hello world".
- b. If number is 10.
- c. Repeat 2 times: Say "hello world" for 2 seconds.
- d. Say "hello world" for 2 seconds.

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G4 Early Assessment (continued)

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⑥ Helena wrote this code. How would you change the code so that it would use the user input for length and width of a rectangle to calculate the area of that rectangle?

```
when green flag clicked
  ask "What is the length?" and wait
  set length to answer
  ask "What is the width?" and wait
  set width to answer
  set area to 5 * 10
  say area for 2 seconds
```

⑦ Paula bought her 6 friends each an ice cream cone and is taking them over to her friends. She can only carry 4 cones at once. One way to carry the cones is listed below. Write two other ways that Paula can carry the cones without dropping them.

Example:

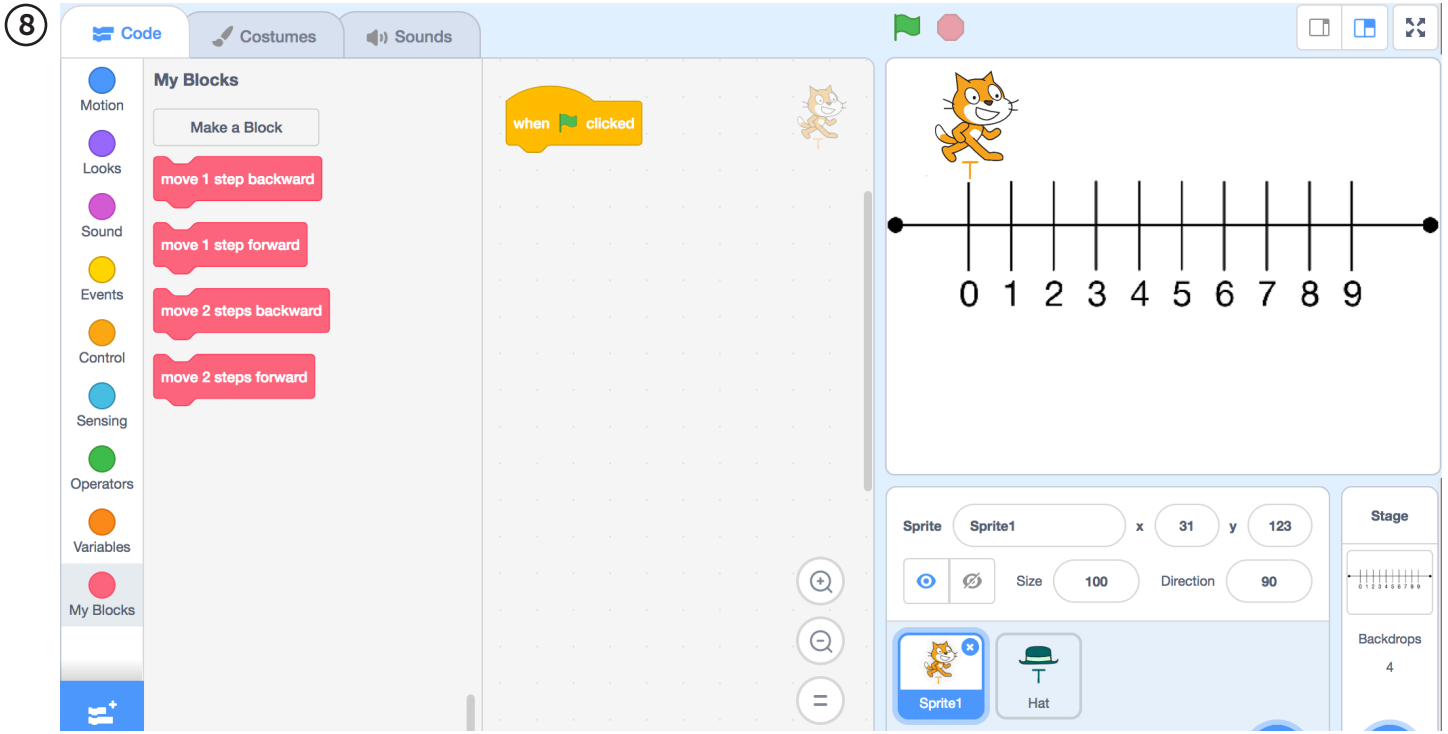
- Carry 2 cones to her friends
- Carry 1 cone to her friend
- Carry 3 cones to her friends

One Way:



Another Way:

G4 Early Assessment (continued)

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Create 2 different scripts (sets of instructions) to move the cat so that he stops at 5 on the number line. **Use only the blocks shown above.** Write or draw your scripts in the boxes.

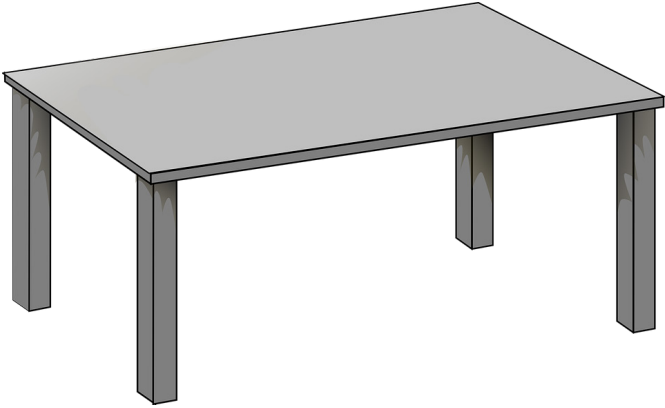
Script A	Script B
	

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G4 Early Assessment (continued)

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9 A factory makes tables. Each table has 4 legs. Write instructions to program a computer to ask for the number of tables and then say the number of legs needed. Pretend that the computer has variables named "tables" and "legs."



<input type="checkbox"/>	legs
<input type="checkbox"/>	tables

Your instructions: