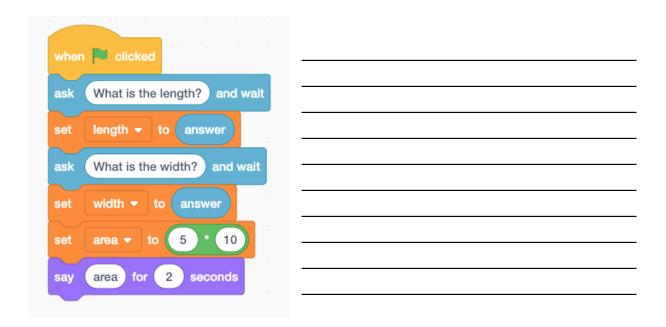
LTEC-2 G4 Early Assessment (2019-2020)

Name:											
In Problems 1 and 2, circle True or False. 1.											
True / False	In this Scratch block set perimeter ▼ to 10 perimeter" is a variable.										
2.											
True / False	A computer program cannot be broken down into smaller parts.										
	A formula for calculating the perimeter of a rectangle is perimeter= $length + width + length + width$, what term do we use to describe $length$?										
a. If	ks to make conditional statements that are valid, then put on a jacket. a spider, then										
A) If number i B) If number i C) Repeat 2 t	nent is a conditional? is 10, then say "hello world". is 10. times: Say "hello world" for 2 seconds. world" for 2 seconds.										

6.

Helena wrote this code.

How would you change the code so that it uses the length and width of a rectangle to calculate the area of that rectangle?



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.

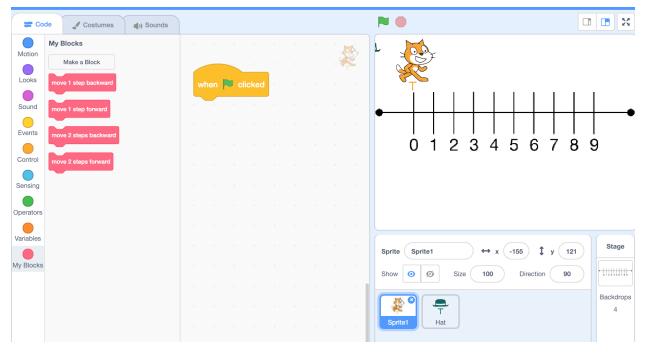
Example:

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

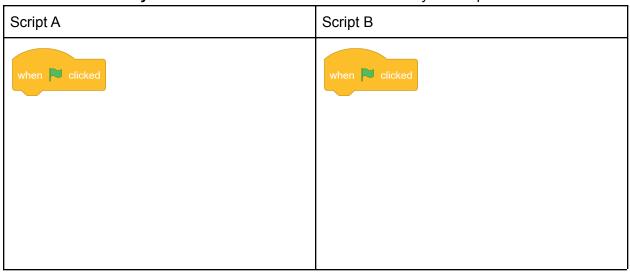
One way:

Another way:

8.



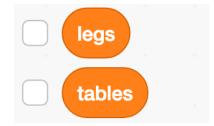
Create 2 different scripts (sets of instructions) to move the cat so that he stops at 5 on the number line. **Use only the blocks shown above.** Write or draw your scripts in the boxes below.



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."





r instructions	3:			

LTEC-2 G4 Early Assessment Answer Key (2019-2020)

Name:												

In Problems 1 and 2, circle True or False.

1. [V.04.c]

<u>V.04.c</u> [G4 EARLY]



2. [DC.05.a]

DC.05.a [G3 EARLY]

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

3. [V.03.b]

<u>V.03.b</u> [G4 EARLY, G4 MID]

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

In this formula, what term do we use to describe *length*?

- A) Loop
- B) Sprite
- C) Variable
- D) Block

4. [C.06.a]

<u>C.06.a</u> [G4 POST]

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

- a. If _______(condition)_______, then put on a jacket.b. If I see a spider, then _______(action)_______.

5. [C.01.a]

C.01.a [G4 MID]

Which statement is a conditional?

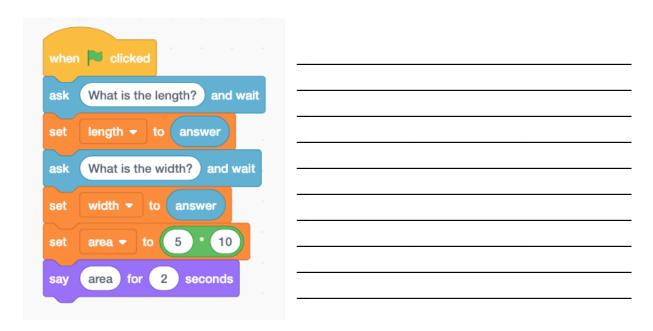
- A) If number is 10, then say "hello world".
- B) If number is 10.
- C) Repeat 2 times: Say "hello world" for 2 seconds.
- D) Say "hello world" for 2 seconds.

6. [V.07.c]

<u>V.07.c</u> [G4 EARLY, G4 MID]

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?



In the block "set area to 5 x 10" I would replace the 5 with the length variable and the 10 with the width variable.

7. [S.04.d]

<u>S.04.d</u> [G4 EARLY]

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:

*Students can provide any combination such that when summed they equal 6, but no step can exceed 4 cones.

Carry 4 cones to her friends

Carry 2 cones to her friends

[OR]

Carry 3 cones to her friends

Carry 2 cones to her friends

Carry 1 cone to her friends

Another way:

*Students can provide any combination such that when summed they equal 6, but no step can exceed 4 cones.

Carry 3 cones to her friends

Carry 1 cones to her friends

Carry 1 cone to her friends

Carry 1 cone to her friends

[OR]

Carry 1 cone to her friends

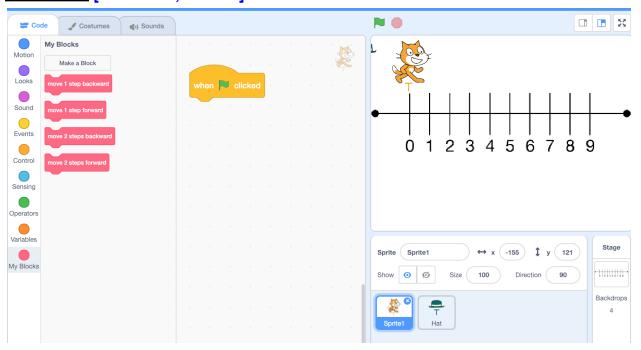
Carry 1 cone to her friends

Carry 2 cones to her friends

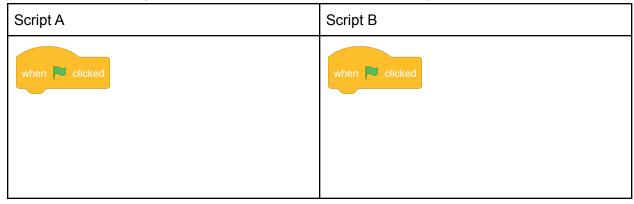
Carry 2 cones to her friends

8. [S.01.a]

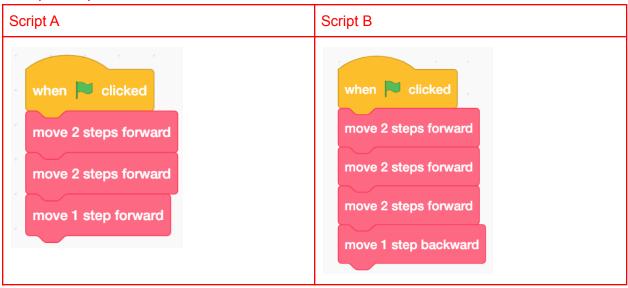
Task S.01.a [G3 EARLY, G3 MID]



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 below.



Exemplar response*



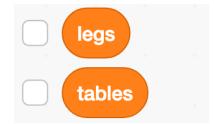
^{*}any combination of forward and backward steps is acceptable as long as the cat stops at 5.

9. [V.14.a]

<u>V.14.a</u> [G4 POST]

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."





Your instructions:

Ask for number of tables
Set "tables" variable to the answer/ number
Set "legs" variable equal to 4 x "tables"
Say "legs"