

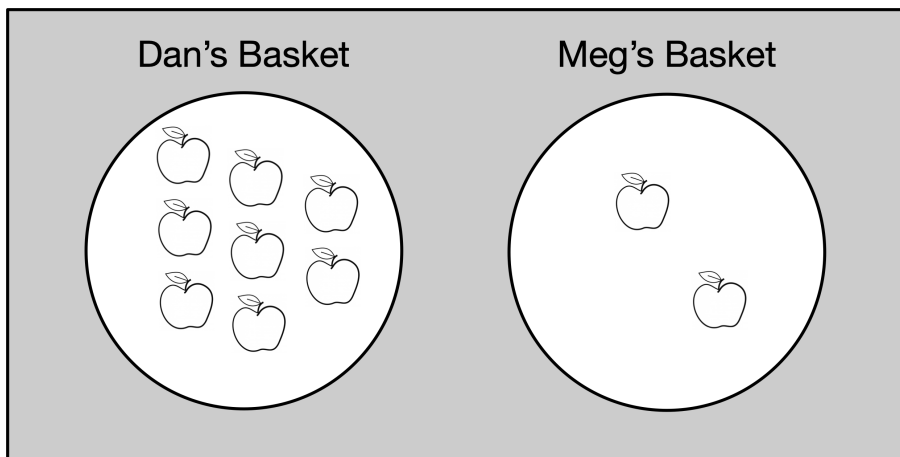
## G4 Late Assessment (2019-2020)

1. Which of the following is used to store input from a user?

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

2.

Dan's basket has 8 apples and Meg's basket has 2 apples.



Instructions:

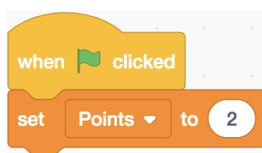
Repeat until Dan has only 4 apples:

- Take 1 apple from Dan's basket and put on table
- Take 1 apple from table and put in Meg's basket


If the above instructions are followed, how many apples will be in Meg's basket?

3.

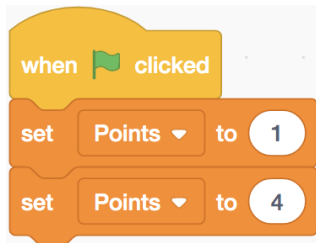
Part A. You run this code:



What is the value in  ? \_\_\_\_\_

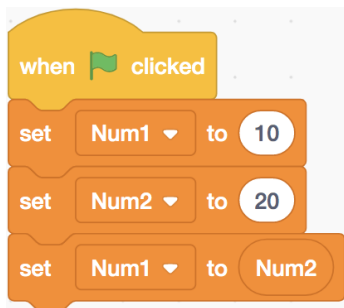
What value is  ? \_\_\_\_\_

Part B. You run this code:



What is the value in  ? \_\_\_\_\_

Part C. You run this code:



What is the value in  now? \_\_\_\_\_

What is the value in  now? \_\_\_\_\_

4.

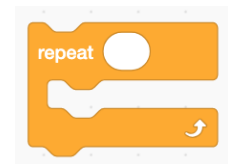
Eve has 9 cookies to give away to her friends Abe, Ed, and Pam. She wants to give each friend an equal number of cookies. Eve wrote a script for how to give away the cookies. .

<b>Eve's Script:</b>
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```

when green flag clicked
  Give cookie to Abe
  Give cookie to Ed
  Give cookie to Pam
  Give cookie to Abe
  Give cookie to Ed
  Give cookie to Pam
  Give cookie to Abe
  Give cookie to Ed
  Give cookie to Pam
  
```

Modify Eve's script by using a **repeat** block at least once. Write (or draw) your script in the box below.



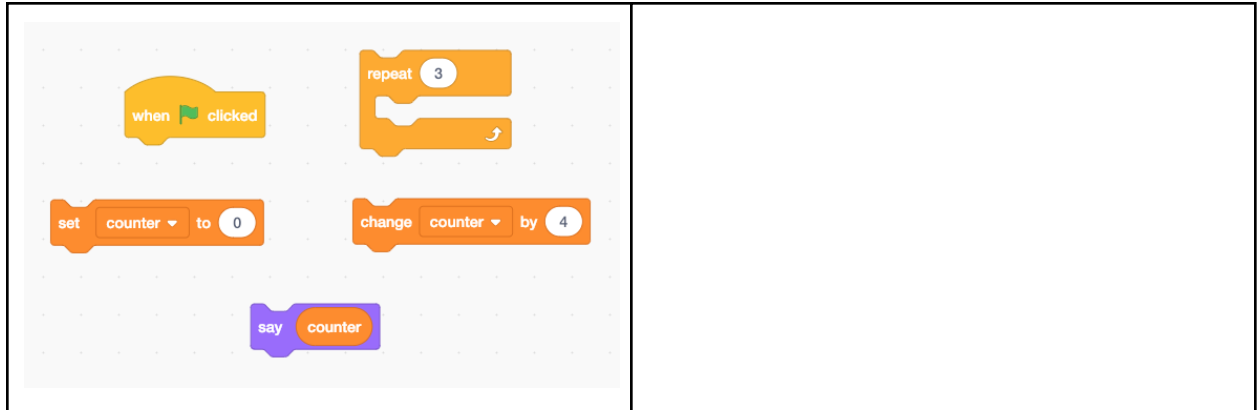
**Your Script:**

```

when green flag clicked
  
```

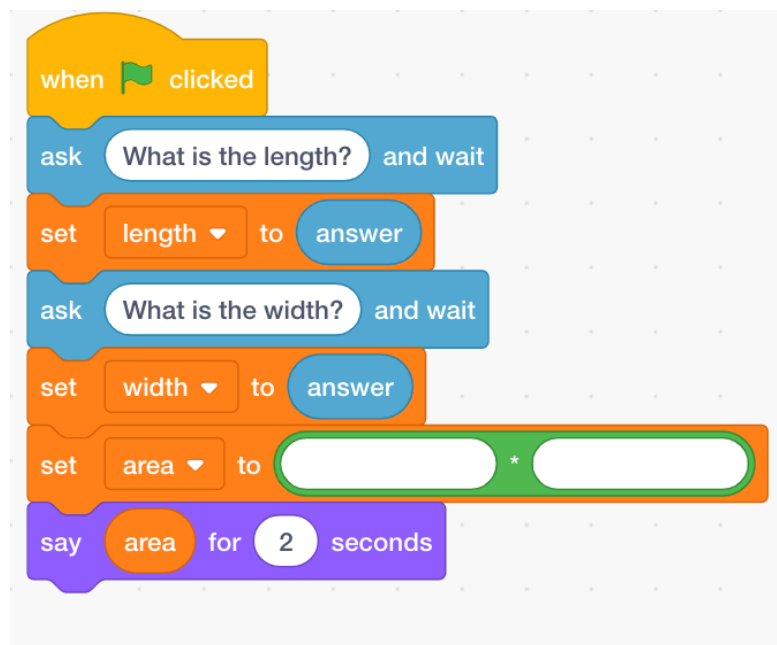
5. Use the blocks below. Draw a script that will make the computer say the numbers 4, 8, and 12.

Blocks:	Your Script:
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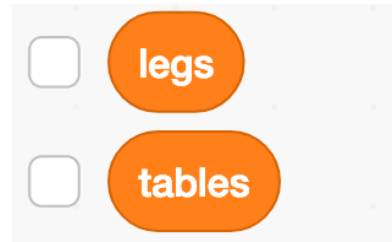
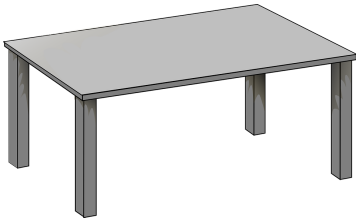
6.

Liz wrote the code below to say the area of a rectangle when the user enters the length and width. Fill in the arguments (white ovals) with the correct variables.



7.

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:

### Answer Key

1. [V.09.a]

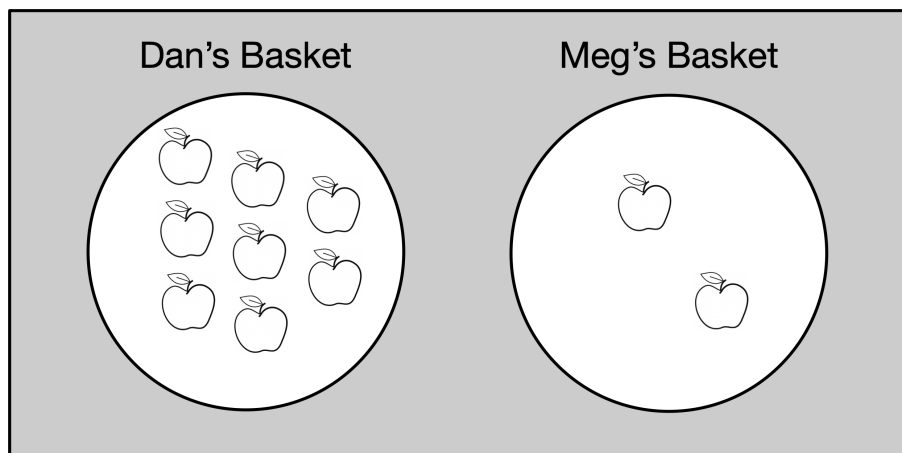
Which of the following is used to store input from a user?

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

[C]

2. [R.05.b]

Dan's basket has 8 apples and Meg's basket has 2 apples.



Instructions:

Repeat until Dan has only 4 apples:

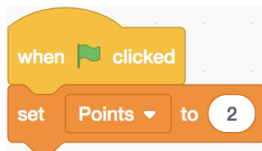
- Take 1 apple from Dan's basket and put on table
- Take 1 apple from table and put in Meg's basket

If the above instructions are followed, how many apples will be in Meg's basket?


6

### 3. [V.13.a] - [G4 Mid]

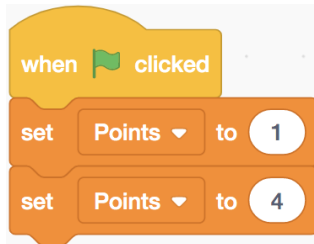
Part A. You run this code:



What is the value in  ? 2

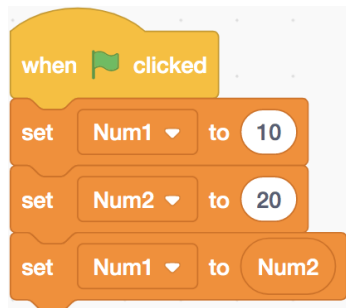
What value is  ? 7

Part B. You run this code:



What is the value in  ? 4

Part C. You run this code:



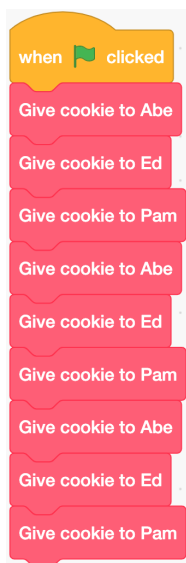
What is the value in **num1** now? \_\_\_\_20\_\_\_\_

What is the value in **num2** now? \_\_\_\_20\_\_\_\_

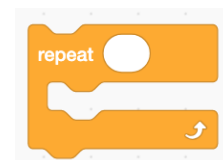
#### 4. [R.01.c]

Eve has 9 cookies to give away to her friends Abe, Ed, and Pam. She wants to give each friend an equal number of cookies. Eve wrote a script for how to give away the cookies.

##### Eve's Script:



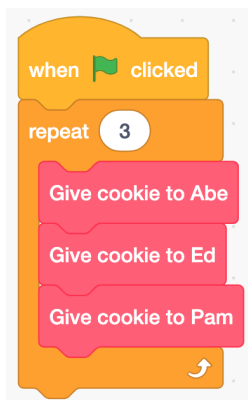
Modify Eve's script. Use a **repeat** block at least once.



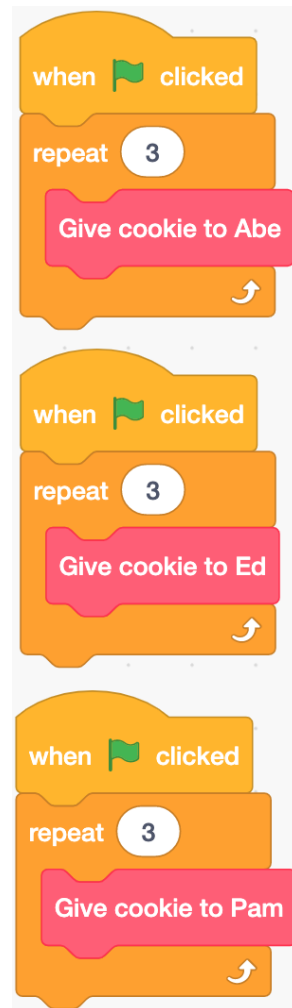
##### Your Script:



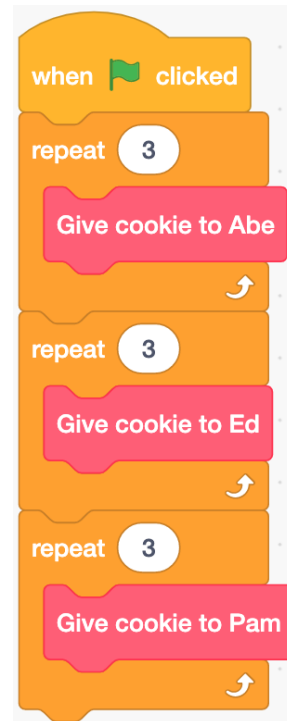
Exemplar Answers:



[OR]



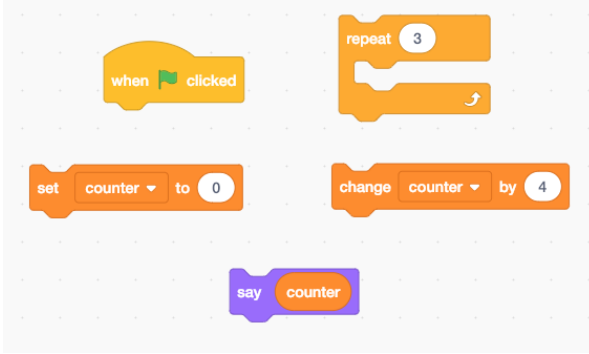
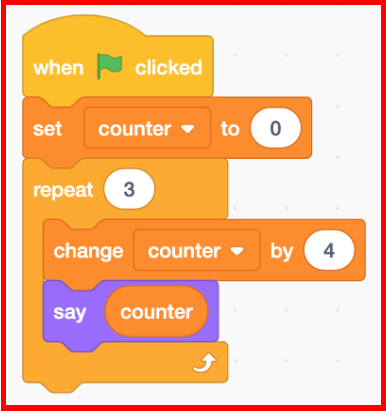
[OR]



5. [R.04.b]

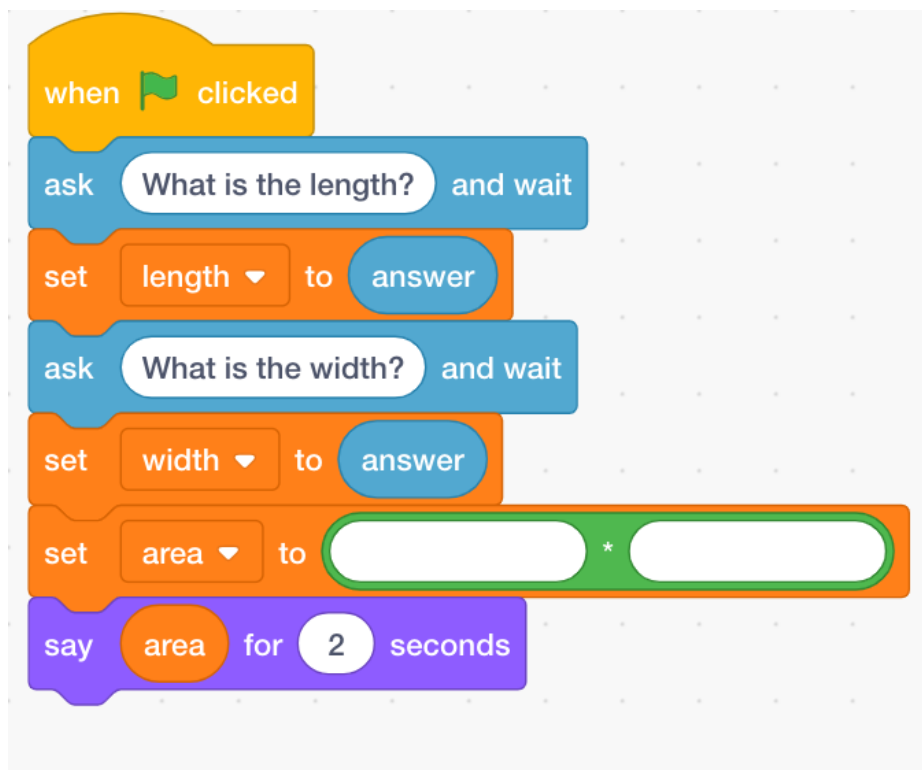
Use the blocks below. Draw a script that will make the computer say the numbers 4, 8, and 12.



Blocks:	Your Script:
	<p>Exemplar response</p> 

6. [V.07.d]

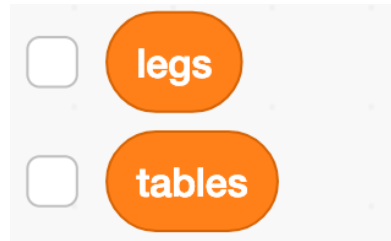
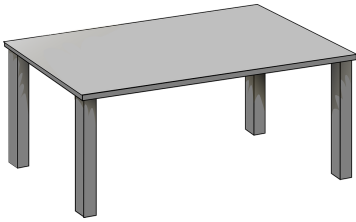
Liz wrote the code below to say the area of a rectangle when the user enters the length and width. Fill in the arguments (white ovals) with the correct variables.



Exemplar Response:  
Set [area] to (length) \* (width)

7. [V.14.a] - [G4 Early]

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”