1 `	For	each	expression	below.	write	what	it	is ec	nual t	o after	being	evaluate	d.
	, 101	Cacii	CAPICSSIOII	DCIOW.	WIIUC	WIIGU	10	10 CC	juai i	o arter	Dung	Cvaruate	u.

$$(10+1) = \underline{\hspace{1cm}} (9/3) = \underline{\hspace{1cm}} (1\%2) = \underline{\hspace{1cm}}$$

$$(8 <= 5) =$$
 $((3+5) < 9) =$ $(not(3==2)) =$

2) Consider the code below.

Write a value for x at line #1 that would result in the execution of code block at line #4 and #5.

3) Write syntactically correct GUpPy code to meet the requirements below.

Place 2 tiles next to each other in a row. Place the first tile at column 6, row 6. Place the next tile either to the right or left of the first, depending on the roll. If the user rolls less than 4, place the tile to the left of the first. Otherwise, a roll of 4 or greater means place the tile to the right of the first. Tiles can be any color.

1 `) For each	expression	below.	write	what	it	is ec	mal i	to	after	being	evaluated.
Τ.	, i oi cacii	CAPICOSIOII	DCIOW.	WIIUC	WIIGU	10.	$10 \mathrm{CC}$	Juai	UU	aruci	Dung	cvaruateu.

$$(1+5) = \underline{\hspace{1cm}} (19/2) = \underline{\hspace{1cm}} (4\%2) = \underline{\hspace{1cm}}$$

$$(3 <= 1) =$$
 $((2+5) == 12) =$ $(not(6 == 3)) =$

2) Consider the code below.

```
1 x = roll()
2 if x < 4:
3     Tile(RANDOM).place(x,6)
4     x = x 2
5 else:
6     Tile(RANDOM).place(x,10)
7     x = x - 2</pre>
```

State a roll() value for line #1 that would result in the execution of code block at line #3 and #4.

3) Write syntactically correct GUpPy code to meet the requirements below.

Place 2 tiles stacked in a column. Place the first tile at column 4, row 4. Place the next tile either above or below the first, depending on the roll. If the user rolls greater than 3, place the tile above the first. Otherwise, a roll of 3 or less means place the tile below the first. Tiles can be any color.

NAME:	June 3, 2024

1) For each expression below, write what it is equal to after being evaluat

$$(3+4) =$$
______ $(19/2) =$ ______

$$(9\%2) =$$

$$(1 <= 1) =$$

$$(1 <= 1) =$$
 $((5+8) == 14) =$

$$(not(7 = = 6)) =$$

2) Consider the code below.

```
1 color = _____
```

- 2 y = 2
- 3 if color == PINK:
- Tile(color).place(0,y)
- Tile(YELLOW).place(0,y+2) 5
- 6 else:
- 7 Tile(color).place(0,y)
- 8 Tile(PINK).place(0,y+2

State a color value for line #1 that would result in the execution of the code block at line #4 and #5.

color =

3) Write syntactically correct GUpPy code to meet the requirements below.

Places 2 tiles next to each other in a row. Place the first tile at a random location based on the roll. If the user rolls 3 or less, place the tile at column 0, row 0. Otherwise, a roll greater than 3 means place the first tile at column 2, row 2. Place the next tile to the right of the first tile. Tiles can be any color.

1 `) For each	expression	below.	write	what	it	is ec	mal i	to	after	being	evaluated.
Τ.	, i oi cacii	CAPICOSIOII	DCIOW.	WIIUC	WIIGU	10.	$10 \mathrm{CC}$	Juai	UU	aruci	Dung	cvaruateu.

$$(2+1) = \underline{\hspace{1cm}} (7/2) = \underline{\hspace{1cm}}$$

$$(7/2) =$$

$$(9\%2) =$$

$$(9>=9) =$$

$$((8+1)>4) =$$

$$(9>=9) =$$
 $((8+1)>4) =$ $(not(3>4)) =$

2) Consider the code below.

$$1 x = roll() + roll()$$

$$2 y = roll() + roll()$$

3 if
$$x > 10$$
:

$$4 x = 10$$

5 else:

$$6 x = 6$$

$$y = 10$$

In the code above, circle the lines of code that will be executed if the value x is initialized to 9 and the value y is initialize to 12.

3) Write syntactically correct GUpPy code to meet the requirements below.

Place 2 tiles next to each other in a row. Place the first tile at column 6, row 6. Place the next tile either to the right or left of the first, depending on the roll. If the user rolls less than 4, place the tile to the left of the first. Otherwise, a roll of 4 or greater means place the tile to the right of the first. Tiles can be any color.

1)	For each	expression	below,	write	what	it	is	equal	to	after	being	eval	uateo	f
----	----------	------------	--------	-------	------	----	----	-------	----	-------	-------	------	-------	---

$$(8+9) =$$
 ______ $(20/3) =$ ______

$$(10\%2) =$$

$$(9 <= 1) =$$

$$((5+8)<14) =$$

$$(not(3==10)) =$$

2) Consider the code below.

$$1 x = roll() * 2$$

$$2 y = roll() * 2$$

3 if
$$x < 6$$
:

$$4 dx = 2$$

$$6 dx = -2$$

7 if
$$y < 6$$
:

8
$$dy = 2$$

$$10 dy = -2$$

Circle the lines of code above that will be executed if the value x is initialized to 2.0 and the value y is initialize to 10.0.

3) Write syntactically correct GUpPy code to meet the requirements below.

Place 2 tiles stacked in a column. Place the first tile at column 4, row 4. Place the next tile either above or below the first, depending on the roll. If the user rolls greater than 3, place the tile above the first. Otherwise, a roll of 3 or less means place the tile below the first. Tiles can be any color.

1 `	For	each	expression	below.	write	what	it	is ec	nual t	o after	being	evaluate	d.
	, 101	Cacii	CAPICSSIOII	DCIOW.	WIIUC	WIIGU	10	10 CC	juai i	o arter	Dung	Cvaruate	u.

$$(4+5) =$$
 (

$$(15/3) =$$

$$(6\%2) =$$

$$(3 < = 6) =$$

$$(3 < = 6) =$$
 $((10 + 1) = = 14) =$

$$(not(2>2)) =$$

2) Consider the code below.

$$2 y = 6$$

$$4 z = x$$

6 else:

$$7 z = y$$

8 print(y)

Write a value for x in the blank at line #1 that would result in the execution of the code block at line #7 and #8.

3) Write syntactically correct GUpPy code to meet the requirements below.

Places 2 tiles next to each other in a row. Place the first tile at a random location based on the roll. If the user rolls 3 or less, place the tile at column 0, row 0. Otherwise, a roll greater than 3 means place the first tile at column 2, row 2. Place the next tile to the right of the first tile. Tiles can be any color.

1	For each	expression	below,	write	what	it	is	equal	to	after	being	evaluate	ed
---	----------	------------	--------	-------	------	----	----	-------	----	-------	-------	----------	----

$$(5+8) =$$
 $(13/2) =$ $(10\%2) =$ $(10\%2) =$

$$(9 <= 6) =$$
 _____ $((1+2) < 20) =$ _____ $(not(5 > 1)) =$ _____

2) Consider the code below.

```
1 x = roll()
2 if x < 4:
3     Tile(RANDOM).place(x,6)
4     x = x + 2
5 else:
6     Tile(RANDOM).place(x,10)
7     x = x - 2</pre>
```

State a roll() value for line #1 that would result in the execution of the code block at line #6 and #7.

```
roll() = _____
```

3) Write syntactically correct GUpPy code to meet the requirements below.

Place 2 tiles next to each other in a row. Place the first tile at column 6, row 6. Place the next tile either to the right or left of the first, depending on the roll. If the user rolls less than 4, place the tile to the left of the first. Otherwise, a roll of 4 or greater means place the tile to the right of the first. Tiles can be any color.

1) For each	expression	below.	write	what	it	is ed	gual t	o after	being	evaluated	d.
-	, I OI COCII	. CILPI CODIOII	OCIO III	*****	*** 11000	10	10 0	quai c	o arour	~ ~ ~ ~ ~	Cranacoc	٠.

$$(6+3) = \underline{\hspace{1cm}} (12/2) = \underline{\hspace{1cm}} (7\%2) = \underline{\hspace{1cm}}$$

$$(5>=3) =$$
 $((5+6)>10) =$ $(not(9<6)) =$

2) Consider the code below.

```
1 color = ______
2 y = 2
3 if color == PINK:
4    Tile(color).place(0,y)
5    Tile(YELLOW).place(0,y+2)
6 else:
7    Tile(color).place(0,y)
8    Tile(PINK).place(0,y+2)
```

State a color value for line #1 that would result in the execution of the code block at line #7 and #8.

3) Write syntactically correct GUpPy code to meet the requirements below.

Place 2 tiles stacked in a column. Place the first tile at column 4, row 4. Place the next tile either above or below the first, depending on the roll. If the user rolls greater than 3, place the tile above the first. Otherwise, a roll of 3 or less means place the tile below the first. Tiles can be any color.