



98-380^{Q&As}

Introduction to Programming Using Block-Based Languages (Touch Develop)

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**QUESTION 1**

Which two problems can a computer solve efficiently by using iteration as part of the algorithm? (Choose two.)

- A. Counting the number of times a specific word appears in a book
- B. Finding the first 1000 digits of pi
- C. Evaluating two player scores to determine a winner
- D. Extracting the meaning of a paragraph of text

Correct Answer: AC

QUESTION 2

You are hired by a taxing authority to create an algorithm for calculating income tax. The income tax system is a progressive tax system.

Any income at \$10,000 or below should be taxed at 10 percent. Any income greater than \$10,000 but less than \$50,000 should be taxed at 20 percent. Any income at \$50,000 or greater should be taxed at 30 percent. An example of how the system works is shown in the following table.

Income	Taxed at 10%	Taxed at 20%	Taxed at 30%
\$10,000	\$10,000	0	0
\$50,000	\$10,000	\$40,000	0
\$51,000	\$10,000	\$40,000	\$1,000

How should you complete the pseudocode? To answer, select the appropriate pseudocode segments in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

IF Income THEN

TAX =

ELSE IF income THEN

TAX =

ELSE

TAX =

END IF



Correct Answer:

**Answer Area**

IF Income THEN

> 50000
<=10000

TAX =

30 * Income
10 * Income
0.30 * Income
0.10 * Income

ELSE IF income THEN

> 10000
<= 50000

TAX =

20 * Income
0.20 * Income
1000 + 0.20 * (Income - 10000)

ELSE

TAX =

30 * Income
0.10 * Income
0.30 * Income
9000 + 0.30 * (Income - 50000)

END IF

**QUESTION 3**

You are helping some of your brother's friends with their math homework. Each of them writes down the problem and solves it. Two of your brother's friends have the same answer, while the third has a different answer.

Friend 1	Friend 2	Friend 3
$3 - 2 * (9 + 3) / 12$	$3 - 2 * (9 + 3) / 12$	$3 - 2 * (9 + 3) / 12$
$3 - 2 * 12 / 12$	$3 - 2 * 12 / 12$	$3 - 18 - 3 / 12$
$1 * 12 / 12$	$3 - 24 / 12$	$-15 + 3 / 12$
$12 / 12$	$3 - 2$	$-12 / 12$
1	1	-1

You need to determine which friend used the correct logic to answer the problem.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area**Yes****No**

Friend 1 uses the correct process to calculate the correct answer.

☐☐

Friend 2 uses the correct process to calculate the correct answer.

☐☐

Friend 3 uses the correct process to calculate the correct answer.

☐☐

Correct Answer:

**Answer Area****Yes****No**

Friend 1 uses the correct process to calculate the correct answer.

☐☒

Friend 2 uses the correct process to calculate the correct answer.

☒☐

Friend 3 uses the correct process to calculate the correct answer.

☐☒**QUESTION 4**

You have a basket of eight apples.

You want to give one of the apples to your best friend Jo Berry. You decide to pick the one that weighs the most.

You need to analyze the following methods and determine whether that method can be used to consistently achieve your goal.

Method 1:

For each apple, measure its weight using a scale. Write down the weight on a sticky note.

Put the sticky note on the apple. Ensure that the same unit of measure (e.g. ounce, gram, or kilogram) is consistently used. Once all apples have been measured, find the apple with the largest number on its sticky note.

Method 2:

Divide the apples into two lots. Each lot should have four apples. Compare the weight of the two lots using a balance scale. Put the lighter lot aside. Divide the remaining apples into two lots of two apples. Compare the weight of the two lots

using a balance scale. Put the lighter lot aside. Compare the weight of the two remaining apples. The heavier apple is the one that weighs the most.

Method 3:

Take two apples from the basket. Use a balance scale to compare them. Keep replacing the lighter apple on the balance scale with another apple from the basket until the basket is empty. The heavier apple remaining on the scale is the one

that weighs the most.

For each of the methods, select Yes if the method can consistently achieve your goal.



Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area	Yes	No
Method 1	<input type="radio"/>	<input type="radio"/>
Method 2	<input type="radio"/>	<input type="radio"/>
Method 3	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area	Yes	No
Method 1	<input checked="" type="radio"/>	<input type="radio"/>
Method 2	<input type="radio"/>	<input checked="" type="radio"/>
Method 3	<input checked="" type="radio"/>	<input type="radio"/>

QUESTION 5

You are building a game using Touch Develop. You have the following sprite sheet.



The width of the sprite sheet is 300px, and the height of the sprite sheet is 75px. The shapes in the sprite sheet are evenly distributed.

You need to complete the code to display the purple five-pointed star.



What code should you use? To answer, select the appropriate options in the answer area.

Hot Area:

Answer Area

```
function main ()  
  var board := △ game → start  
  var sheet := board → create some sheet (☆ shapes sheet)  
  sheet → set frame grid ( ☐ ☒ ☐ ☐ , 0, 0, 0 )  
  var star := sheet → create  
end function
```

1	1	1	1
4	4	4	4
5	5	5	5
75	75	75	75

Correct Answer:

Answer Area

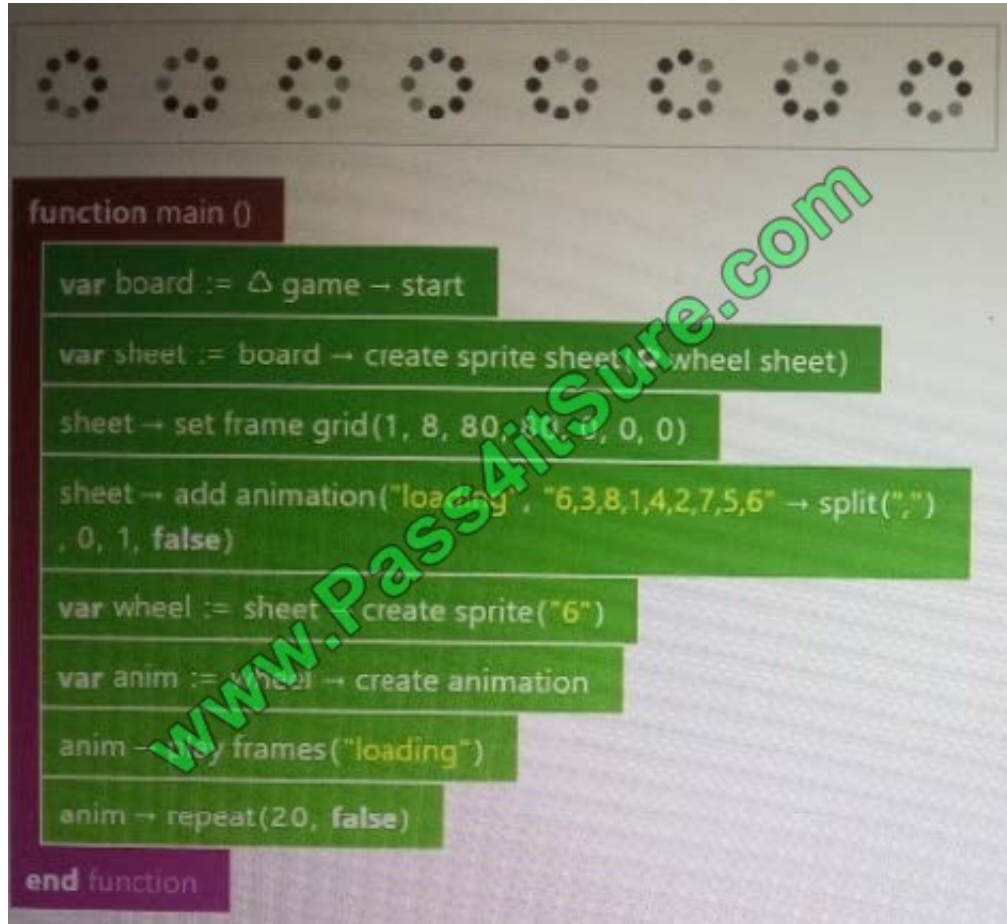
```
function main ()  
  var board := △ game → start  
  var sheet := board → create some sheet (☆ shapes sheet)  
  sheet → set frame grid ( ☐ ☒ ☐ ☐ , 0, 0, 0 )  
  var star := sheet → create  
end function
```

1	1	1	1
4	4	4	4
5	5	5	5
75	75	75	75

**QUESTION 6**

You work as a game developer at Tailspin Toys.

Your colleague created a script to display an animation using the following sprite sheet and Touch Develop code.



How many times will the animation play?

Hot Area:

Correct Answer:

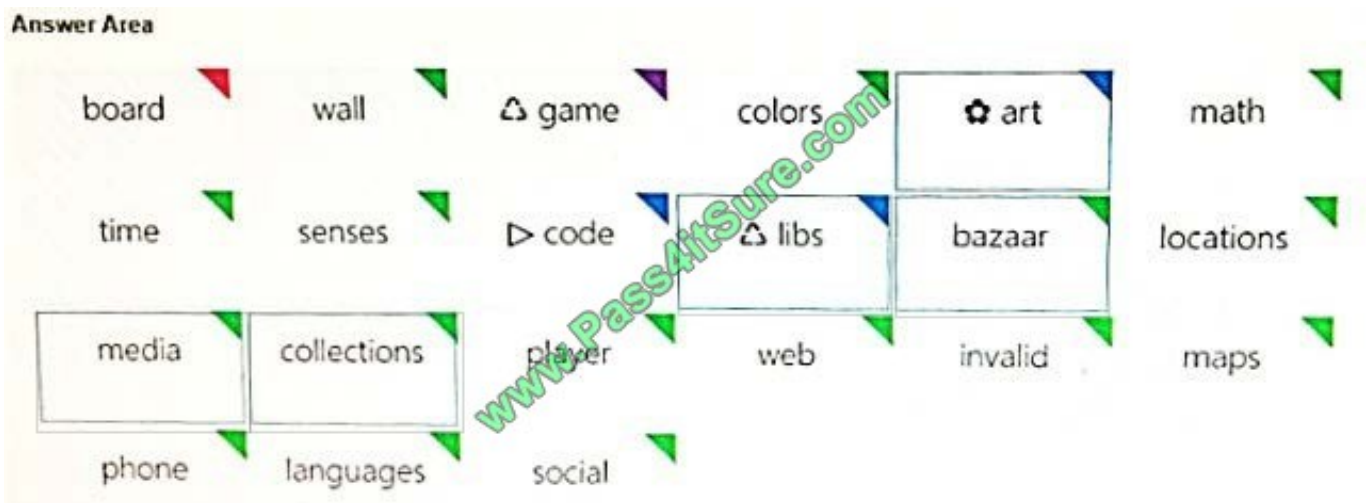


QUESTION 7

You want to allow a user to choose a picture from his or her device.

Which library includes a function that will accomplish this goal? To answer, select the appropriate library in the answer area.

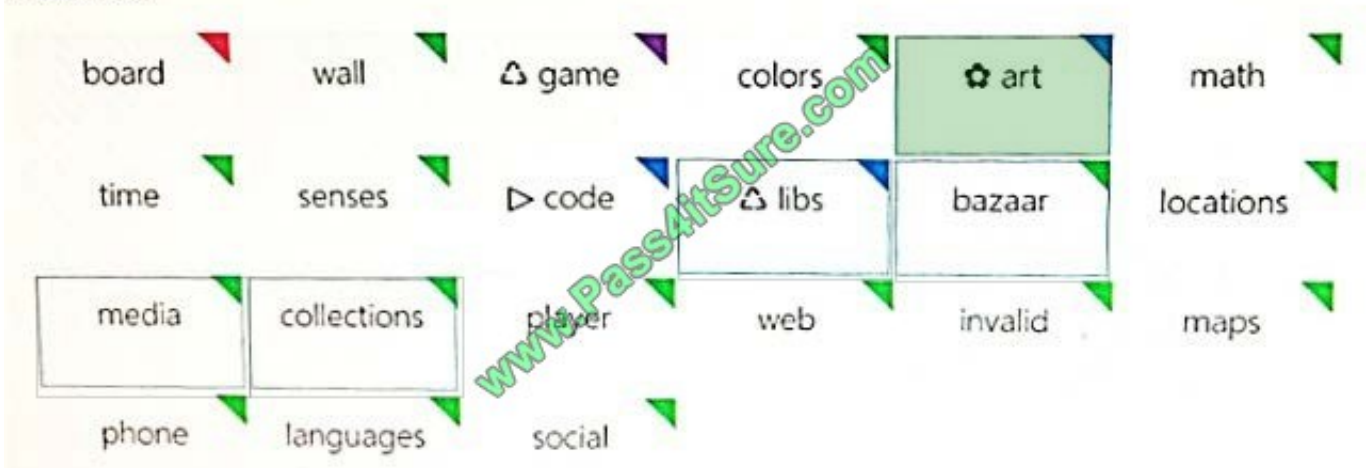
Hot Area:



Correct Answer:



Answer Area



References: <https://www.touchdevelop.com/docs/how-to-search>

QUESTION 8

You are creating a program for Blue Yonder Airlines that will run on an automated boarding pass scanner. The program will track the number of passengers who have boarded a 60-seat airplane. The program will display the appropriate

message on the boarding pass scanner.

In the past, this has been a manual process. You receive the following table as an example of the process.

Total Passengers Onboard	Message
1	Welcome to Blue Yonder Airlines! Your plane will continue to board
24	Welcome to Blue Yonder Airlines! Your plane will continue to board
50	Welcome to Blue Yonder Airlines! Your flight will begin shortly
60	Please see a ticket agent for alternative flight

You need to create the WHILE loop that will allow Blue Yonder Airlines to track their passengers and display the correct screen message.

Which five pseudocode segments should you use to develop the solution? To answer, move the appropriate pseudocode segments from the list of code segments to the answer area and arrange them in the correct order.

Select and Place:



Pseudocode Segments

```
IF numPassengers < 50, THEN PRINT "Welcome aboard
Blue Yonder Airlines! Your plane will continue to board."

ELSE PRINT "Welcome aboard Blue Yonder Airlines!
Your flight will begin shortly."

END WHILE

PRINT "Please see a ticket agent for an alternate flight."

ELSE PRINT "Please see a ticket agent for an alternate flight."

END WHILE

ELSE IF numPassengers > 60, THEN PRINT "Welcome aboard
Blue Yonder Airlines! Your flight will begin shortly."

Scan a boarding pass and increment numPassengers

WHILE numPassengers < = 60 DO
```

Answer Area (move 5 pseudocode segments)

Answer Area (move 5 pseudocode segments)

Correct Answer:

Pseudocode Segments

```
PRINT "Please see a ticket agent for an alternate flight."

ELSE PRINT "Please see a ticket agent for an alternate flight."

END WHILE

ELSE IF numPassengers > 60, THEN PRINT "Welcome aboard
Blue Yonder Airlines! Your flight will begin shortly."
```

Answer Area (move 5 pseudocode segments)

Answer Area (move 5 pseudocode segments)

```
Scan a boarding pass and increment numPassengers

WHILE numPassengers < = 60 DO

IF numPassengers < 50, THEN PRINT "Welcome aboard
Blue Yonder Airlines! Your plane will continue to board."

ELSE PRINT "Welcome aboard Blue Yonder Airlines!
Your flight will begin shortly."

END WHILE
```

QUESTION 9

Your coding team is creating a weather app. The application must allow the user to input a wind speed and see if the storm is a hurricane. If the storm is a hurricane, the app should also determine which category of storm it is on the Saffir-Simpson Hurricane Wind Scale.

The Saffir-Simpson Hurricane Wind Scale is defined as follows:

Category 1 is 74-95 MPH Category 2 is 96-110 MPH Category 3 is 111 to 129MPH Category 4 is 130-156 MPH Category 5 is 157 MPH and above

Four team members have proposed pseudocode to meet this requirement.



Which pseudocode is in the appropriate logical order?

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: D

QUESTION 10

You are creating a graphic that illustrates an overview of the entire software development life cycle.

Which order correctly describes the steps that occur prior to release and deployment? To answer, drag the appropriate step to the correct position in the life cycle. Each action may be used once, more than once, or not at all. You may need to

drag the split bar between panes or scroll to view content.

Select and Place:

Steps

Design

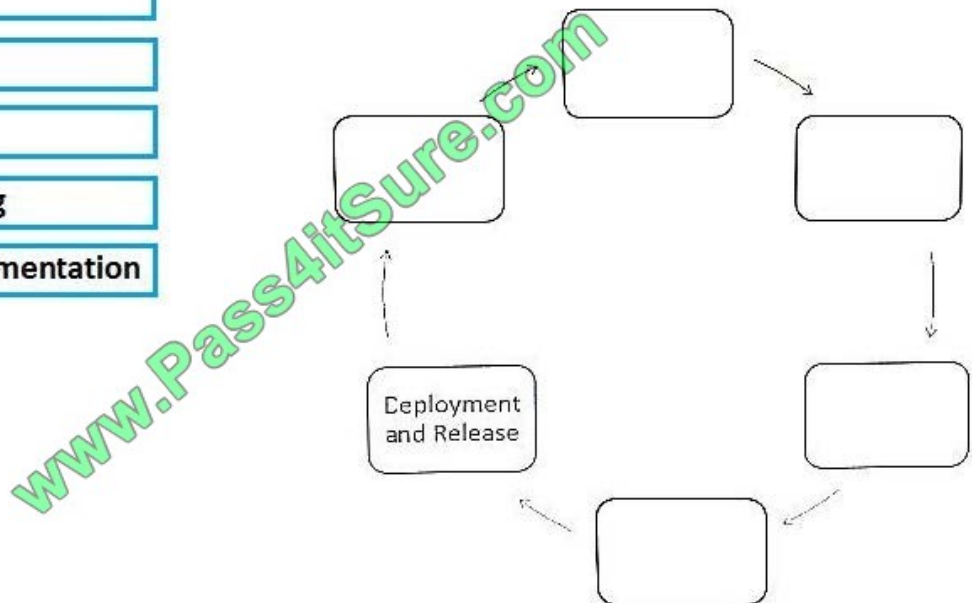
Testing

Maintenance

Requirements gathering

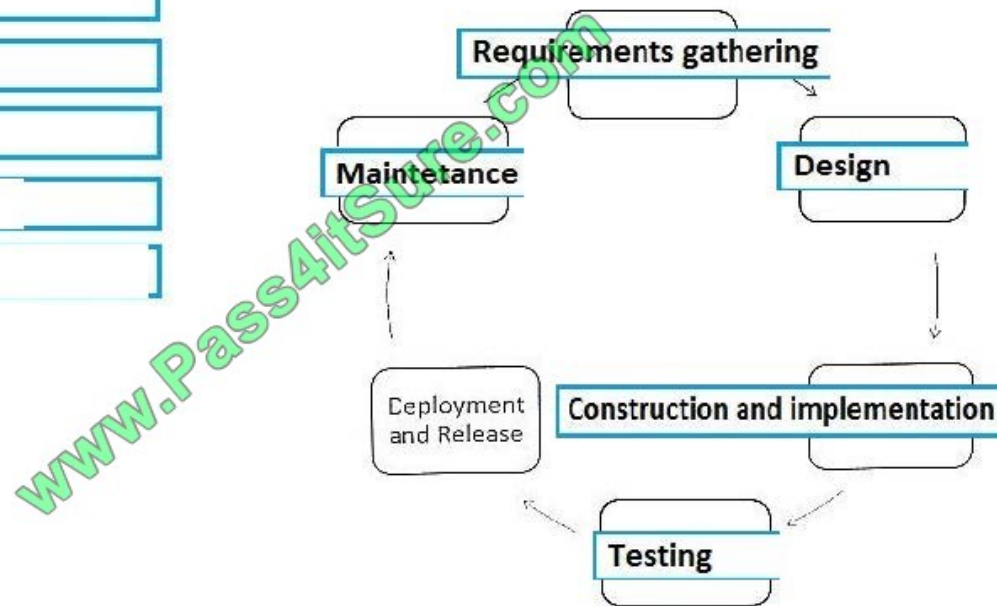
Construction and implementation

Answer Area



Correct Answer:

**Steps**

Answer Area**QUESTION 11**

You are decorating the gymnasium for prom. You have 100 packages of balloons. There are 18 balloons of five different colors in each package. You do not know how many balloons of each color are in a package, but you do know that each

package contains some blue balloons and some white balloons and that there are at least 50 balloons of each color.

You need to initiate 50 blue balloons and 50 white balloons with helium.

A classmate has recommended the following algorithm:

Repeat Until there are 50 inflated blue balloons

Open a package.

Repeat Until there are no blue balloons in the package

Take a blue balloon from the package and inflate it

Take a white balloon from the package and inflate it.

End Repeat

End Repeat



You need to evaluate the result of using this algorithm.

Which three conditions will result from inflating balloons using this algorithm? (Choose three.)

A. There might be white balloons left over in multiple open packages.



- B. You will inflate the correct number of blue balloons.
- C. You might inflate too few white balloons.
- D. There might be blue balloons left over in multiple open packages.
- E. You might inflate too few blue balloons.
- F. You will inflate the correct number of white balloons.
- G. You might inflate more than 100 balloons.

Correct Answer: ACG

QUESTION 12

You are preparing to teach a class on using loops. You write the following pseudocode:

```
INPUT a
INPUT b
SET result TO 0
WHILE a <= b
    SET result TO result + a
    SET a TO a + 1
END WHILE
OUTPUT result
```

You need to test the pseudocode using different values.

Match the final values of the variable result to the corresponding initial values of variables a and b. To answer, drag the appropriate result value from the column on the left to the initial values on the right. Each value may be used once, more

than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:



Result Values

-1
0
1
2
3
4

Answer Area

a = -1 and b = 1
a = 0 and b = 2
a = 2 and b = 2

Correct Answer:

Result Values

-1
2
4

Answer Area

0
1
3

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