98-380^{Q&As}

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

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QUESTION 1

You store a collection of strings in a variable named menu.

You need to add the string Cookies as the fourth item in the collection.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:

Correct Answer:

QUESTION 2

This question requires that you evaluate the underlined text to determine if it is correct.

Sunny, Rainy, and Cloudy control the weather of a magic kingdom.

Citizens of the kingdom are not happy with their service because the weather changes too rapidly. To make the citizens happy, Sunny, Rainy, and Cloudy agree that only one of them will control the weather at a time. To determine who

controls the weather next, they design a game to solve the problem.

Sunny, Rainy, and Cloudy play the game every few hours. Because Sunny is the youngest of the three. Rainy always lets Sunny move first. The winner gets the right to control the weather. If there is no winner between Sunny and Rainy,

Cloudy controls the weather. The game play for all three conditions is shown in the exhibits. (Click the Sunny wins tab, the Rainy wins tab and the Neither wins tab to view the exhibits.)

You create the following algorithm to define the game play:

```
REPEAT UNTIL someone controls the weather
    Sunny makes a move.
    Rainy makes a move.
    IF Sunny has a winning line THEN
        Sunny controls the weather.
    END IF
    IF Rainy has a winning line THEN
        Rainy controls the weather.
    END IF
    If the board is full THEN
        Cloudy controls the weather.
    END IF
END REPEAT
```

This algorithm will produce the correct result.

Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

A. No change is needed.

B. will cause an endless loop.

C. might give Rainy control of the weather when Sunny wins.

D. might give Sunny control of the weather when Rainy wins.

Correct Answer: A

References: https://www.bbc.co.uk/education/guides/zrxncdm/revision/6

QUESTION 3

You are creating an app for teenage drivers that will include a trip calculator. The trip calculator will prompt the user for the following information:

the number of miles for a trip

the vehicle's miles per gallon (mpg)

the price of gas per gallon

Variables defined and described in the following table.

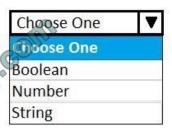| Variable	Description
tripMiles	the number of total miles for the trip
mpg	the vehicle's miles per gallon
gasPrice	the anticipated price per gallon of gas
tripGallons	the gallons of gas required for the trip
transExpense	the cost of gas for the trip

The program will output data in the following format:

"Your trip of _____miles will cost a total of_____when the gas price is___."

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the table.
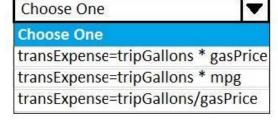
Hot Area:

Answer Area

What is the appropriate data type for transExpense?

Choose One ▼
Choose One
Boolean
Number
String

Which formula will correctly calculate transExpense?

Choose One ▼
Choose One
transExpense=tripGallons * gasPrice
transExpense=tripGallons * mpg
transExpense=tripGallons/gasPrice

Correct Answer:

Answer Area

What is the appropriate data type for transExpense?

Choose One ▼

Choose One
Boolean
Number
String

Which formula will correctly calculate transExpense?

Choose One ▼

Choose One
transExpense=tripGallons * gasPrice
transExpense=tripGallons * mpg
transExpense=tripGallons/gasPrice

QUESTION 4

You are creating a game for a group of preschoolers to play.

In the game, you create a dog that chases after a ball. If the dog catches the ball, the player earns a point. If the ball makes it across the screen, the player loses a life. You want the dog to be larger than the ball so you set the dog width to 100
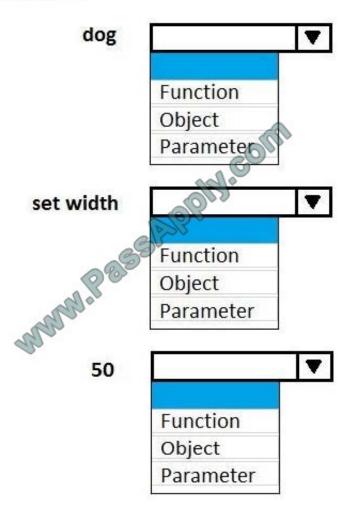
and the ball width to 25.

When the user clicks the mouse button, the dog barks and displays the world "Woof" in green text.

Before you begin programming the game, you need to identify the objects, functions, and parameters you will use. To answer, select the appropriate options in the answer area.
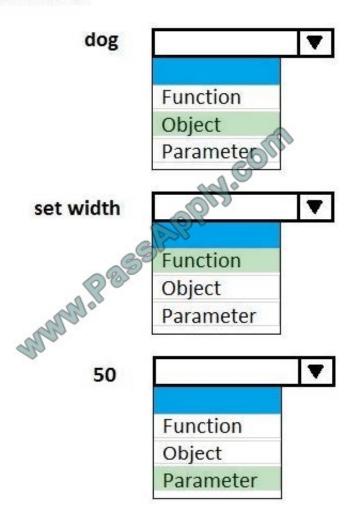
Hot Area:

Answer Area

dog

Function
Object
Parameter

set width

Function
Object
Parameter

50

Function
Object
Parameter

Correct Answer:

Answer Area

dog
| ▼ |
| Function |
| Object |
| Parameter |

set width
| ▼ |
| Function |
| Object |
| Parameter |

50
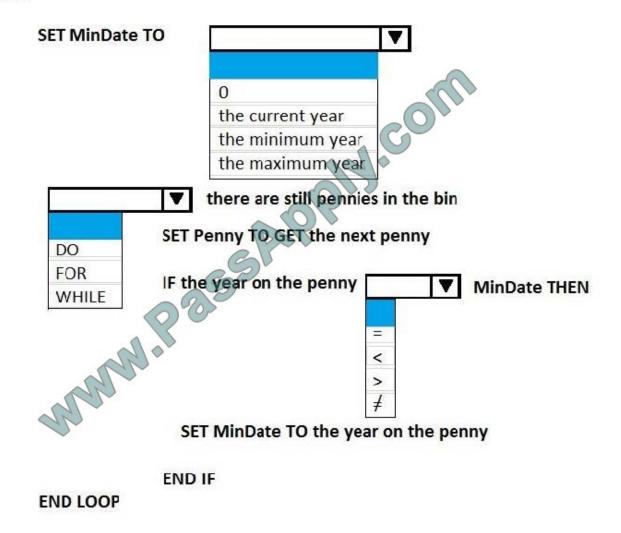| ▼ |
| Function |
| Object |
| Parameter |

QUESTION 5

A coin minting agency hires you to find the oldest known minted pennies. The agency has a coin machine. You need to create the algorithm to identify the oldest minted year of the pennies inserted into the machine. How should you complete the algorithm? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

SET MinDate TO [▼]

0
the current year
the minimum year
the maximum year

[▼] there are still pennies in the bin

DO
FOR
WHILE

SET Penny TO GET the next penny

IF the year on the penny [▼] MinDate THEN

=
<
>
≠

SET MinDate TO the year on the penny

END IF

END LOOP

Correct Answer:

Answer Area

SET MinDate TO [▼]

- 0
- the current year
- the minimum year
- the maximum year

[▼] there are still pennies in the bin

- DO
- FOR
- WHILE

SET Penny TO GET the next penny

IF the year on the penny [▼] MinDate THEN

- =
- <
- >
- ≠

SET MinDate TO the year on the penny

END IF

END LOOP

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