



Raspberry Pi

# Homework: Multiple choice questions

Selection, conditions, and operators

Q1. What will be the output of this program when it is executed? (What will the sprite say)?

```
when green flag clicked
  set hour to 12
  if hour > 11 then
    say Good afternoon for 2 seconds
  say How are you? for 2 seconds
```

A	Good afternoon
B	How are you?
C	Good afternoon How are you?
D	Nothing will be outputted/said

Answer	
Justification	

Q2. What will be the output of this program when it is executed? (What will the sprite say)?

```

when green flag clicked
  set hour to 12
  if hour < 12 then
    say Good morning for 2 seconds
  else
    say Good afternoon for 2 seconds
  say How are you? for 2 seconds
    
```

A	Good afternoon How are you?
B	How are you?
C	Good morning Good afternoon How are you?
D	Good morning How are you?

Answer	
Justification	

Q3. Which of the conditions would evaluate as true with the following inputs?

```

set number1 to 30
set number2 to 90
    
```

		<i>Tick if it evaluates as true</i>	<i>Explain why the incorrect answers evaluate as false</i>
A			
B			
C			
D			

## Count-controlled iteration

Q4. Which of the following blocks of code would make the Scratch cat say “1, 2, 3” leaving a second in between each number?

A

```
when clicked clicked
set number to 1
repeat 3
say number for 1 seconds
```

B

```
when clicked clicked
set number to 1
repeat 3
change number by 1
say number for 1 seconds
```

C

```
when clicked clicked
set number to 1
repeat 3
say number for 1 seconds
change number by 1
```

D

```
when clicked clicked
repeat 3
say number for 1 seconds
change number by 1
```

Answer	
Justification	

Q5. What will be outputted (what will be said) when the following program is executed?

```
when green flag clicked
  set hour to 10
  repeat 4
    if hour = 12 then
      say Lunchtime for 1 seconds
    else
      say hour for 1 seconds
    change hour by 1
```

A	10, 11, Lunchtime, 12
B	10, 11, Lunchtime, 13
C	10, 11, 12, 13
D	10, 11, Lunchtime, 12, 13

Answer	
Justification	

Q6. What will be outputted (what will be said) when the following program is executed?

```

when green flag clicked
  set weather to Sun
  repeat (3)
    say weather for 1 seconds
    set weather to Rain
  if weather = Rain then
    say It's raining for 1 seconds
    
```

A	Sun, Rain, It's raining
B	Sun, Rain, Rain
C	Sun, Rain, Rain, It's raining
D	Sun, It's raining

Answer	
Justification	

**END OF QUESTIONS**

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