10/10/2023, 19:16 Reasoning OA

# Reasoning OA

Click on a question number to see how your answers were marked and, where available, full solutions.

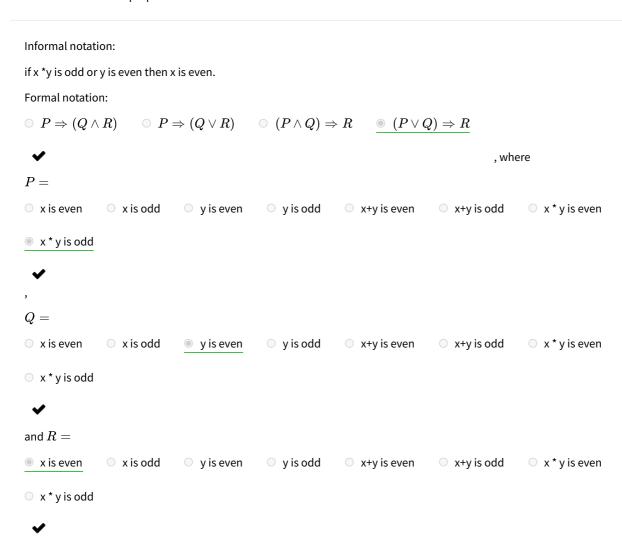
<b>Question Number</b>	S	core	9
Question 1			
Question 2			
Total	5	1	5 (100%)

### **Performance Summary**

Exam Name:	Reasoning OA		
Session ID:	15432741906		
Student's Name:	Makolo, Daniella (dom10)		
Exam Start:	Tue Oct 10 2023 19:12:08		
Exam Stop:	Tue Oct 10 2023 19:16:22		
Time Spent:	0:04:14		

#### Question 1

Translate the following propositions from informal notation to formal notation. Make it clear what each propositional letter stands for.



#### Gap 0

- ✓ You chose a correct answer. You were awarded 1 mark.
  - Gap 1
- ✓ You chose a correct answer. You were awarded 1 mark.
  - Gap 2
- $\checkmark$  You chose a correct answer. You were awarded 1 mark.
  - Gap 3
- ✓ You chose a correct answer. You were awarded 1 mark.
  You scored 4 marks for this part.

Score: 4/4 ✔

## Question 2

Determine if the following statement is true or false for all integers x and y.

$$P \Rightarrow (\neg Q \land \neg R)$$

with

P stands for "  $\mathbf{x}^*\mathbf{y}$  is even "

 ${\it Q}$  stands for " y is odd "

R stands for " x is odd "

The proposition above is false ✓ ✓.

You chose a correct answer. You were awarded 1 mark.
You scored 1 mark for this part.

Score: 1/1 🗸

 $Created\ using\ Numbas\ (https://www.numbas.org.uk),\ developed\ by\ Newcastle\ University\ (http://www.newcastle.ac.uk).$