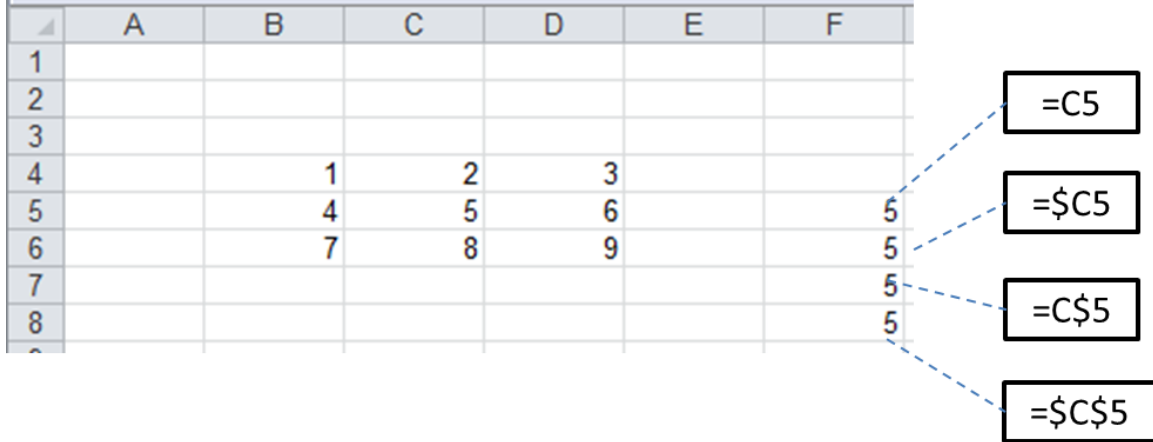# Review questions CPSC 203 midterm, winter 2015

Short answer

Short answer #1

For this question refer to the spreadsheet shown in Figure 1.

Figure 1: Starting Excel spreadsheet

Now we refer to the columns in the table below. Given the contents (formulas in Col 2 and number displayed in Col 3) for the four cells (Col 1) in column 'F', the formulas are copied to the locations specified in Col 4. Fill in the formulas in the destinations (Col 5) and the number displayed (Col 6).

Col 1: Current location in the spreadsheet (Figure 1)	Col 2: Current formula (also shown in the annotations of Figure 1)	Col 3: Current number displayed (also shown in cells of Figure 1)	Col 4: Destination in the spreadsheet where the formula is copied	Col 5: Formula in the destination cell	Col 6: Number displayed in the destination cell
F5	=C5	5	G4		
F6	=$C5	5	H7		
F7	=C$5	5	E8		
F8	=C5	5	A1		

Short answer #2

Write an SQL query that displays the 'Make', 'Model' and 'Price' of "Jeeps" that are between $20,000 and $50,000 (exclusive of both end points) from the table shown in Figure 2.

CarID	Price	Make	Model	CarClassification
1	$24,000.00	Eagle	Talon	Sports car
2	$18,500.00	Jeep	Patriot	SUV
3	$50,000.00	Nissan	370z	Sports car
4	$34,500.00	Toyota	FJ	SUV
5	$32,000.00	Toyota	Sienna	Minivan
6	$96,200.00	Porsche	911 Carrera	Sports car
8	$25,000.00	Jeep	Rubicon	SUV
9	$35,000.00	Jeep	Gran Cherokee	SUV

Figure 2: Cars database table

<< **Write your answer here** >>

Multiple choice: pick the best answer to the question

1) Ultrabook and netbook computers are the most similar to (indeed variants of) what type of computer?
   a. Apple computers
   b. All-in-one computers
   c. Laptops
   d. Tablets
   e. Windows PC's

2) Comparing the MAC-OS operating system vs. Windows which of the following statements is true?
   a. You can never get infected with a virus on a MAC?
   b. You are less likely to get infected with a virus on a MAC because the software has been proven to be better written.
   c. You are less likely to get infected with a virus on a MAC because there are fewer users.
   d. You have a lower probability of finding rare software on a MAC vs. Windows computer.
   e. (c) & (d)

3) If a storage device had a capacity of 8 MB it could store:
    a. ~8 bits of information.
    b. ~8 bytes of information.
    c. ~8,000 bytes of information
    d. ~8,000,000 bytes of information
    e. ~8,000,000,000 bytes of information

4) The Borg™ alphabetic consists of: 8 vowels, 23 consonants and 2 "special characters". What is the *minimum number of bits* needed to represent the entire Borg alphabet?
    a. 4
    b. 5
    c. 6
    d. 33
    e. 1 Mega or 1 million

5) The main benefit of a spreadsheet is:
    a. Browsing the web
    b. Editing text
    c. Performing calculations
    d. Storing information so it can be retrieved quickly and efficiently
    e. None of the above

6) Given that cell C1 contained the value *False* and cell D1 contained the value *True* what is the result of the following expression:
    `=AND(NOT(C1),D1)`
    a. 0
    b. 1
    c. False
    d. True
    e. The answer cannot be determined