1) Which of the following chemical formulae is/are written **correctly** for ionic compounds?

Circle TRUE or FALSE. If FALSE, **rewrite** the chemical formula using correct subscripts. (4 marks)

a) CaO T / F

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b) H2Br T / F

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c) K2(CO3) T / F  
  
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d) Fe2O3 T / F

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e) Na2Cl2 T / F

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2) Why do noble gases almost never form chemical bonds? Provide reasoning for your answer. (2 marks)

3) Heather is a student in another grade 9 Science class. She claims that oxygen gas, O2, is a compound because it is made of 2 oxygen atoms. Is she correct? Justify your answer. (1 mark)

4) Give an example of an endothermic, chemical change. Make sure you state whether or not this is a reversible or irreversible process. Explain why your example as a reversible/irreversible, endothermic, chemical change. (6 marks)