## Green Mathematics for Machine Learning Bayesian Creatures

Lesson 1: Sets, Worksheet 1

1)	S =	{a.	b.	C.	d.	e.	f.	b.	g}
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6)  $A = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ 

What is wrong with this set?

Write the subset B such that B contains all the elements of A that are even numbers.

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2) Is **{a, b, c}** the same set as **{b, a, c}?** 

YES NO

7) If **A = {{a, b}, c, {d, e}, {f, g, h}}**, what is **|A|**?

3) If B is the subset of A, then A is the

\_\_\_\_\_ of B.

8) If **A = {2, 3, 5, 7, 11}** and the subset **B = {3, 7, 11}**, what is the ratio of **|B|** to **|A|**?

4) If **A** = {1, 2, 4, 8, 16, 32, 64} and **B** = {1, 2, 5, 8}, is B a subset of A?

YES NO

9) Which of these statements says "R is a subset of S"?

 $R \subset S \quad S \subset R$ 

5) Sets cannot have other sets as members.

10) Is **{a, b, {c}, d}** the same as **{{a}, b, {c}, d}**?

TRUE FALSE

YES NO