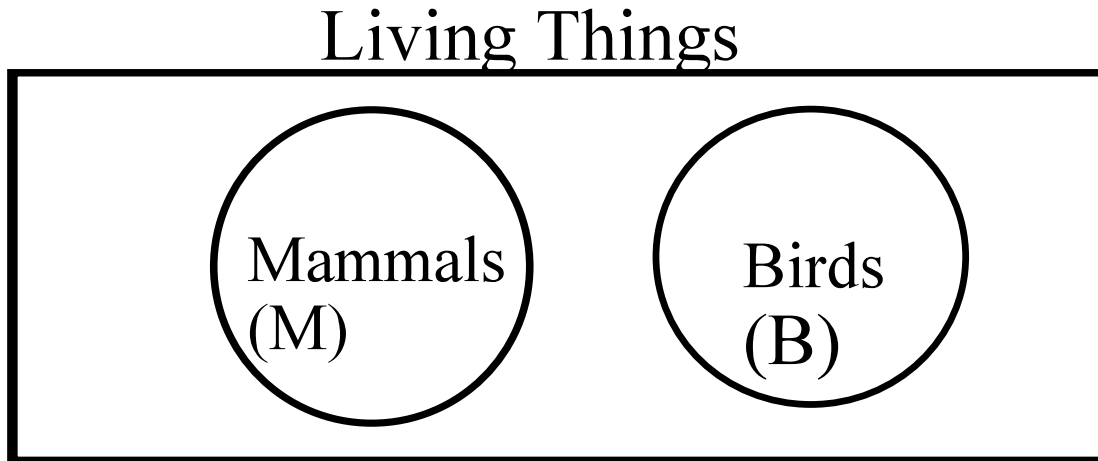


Probability (Venn Diagrams)

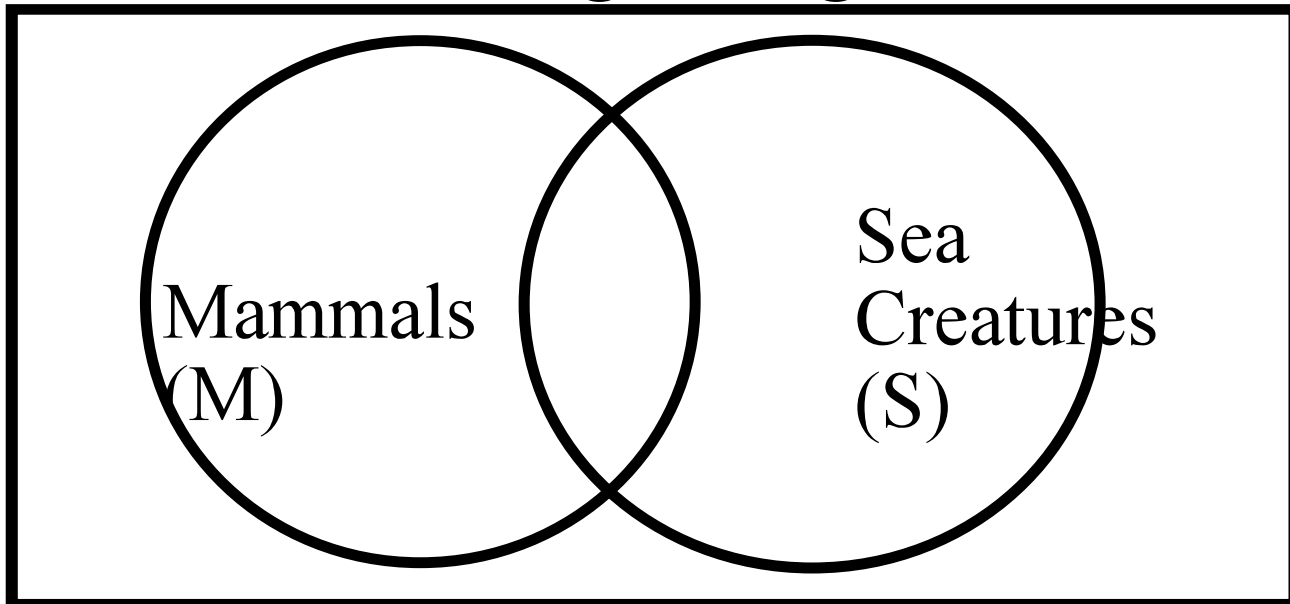
1) List some living things in all three of the groups shown in the diagram below.



Draw the diagram above for each problem and shade the indicated region.

- | | | | |
|--------|-------------|-------------|---------------------|
| 2) M | 3) M^c | 4) $\sim M$ | 5) $M \cup B$ |
| 6) B | 7) $\sim B$ | 8) B' | 9) $\sim(M \cup B)$ |

Living Things



10) List some living things in all three of the groups shown in the diagram below.

Draw the diagram above for each problem and shade the indicated region.

- | | | | | |
|----------------|--------------------|---------------------|----------------------|--------------------|
| 11) M | 12) $\sim S$ | 13) S | 14) $\sim M$ | 15) $M \cup S$ |
| 16) $M \cap S$ | 17) $(M \cup S)^c$ | 18) $M \cap \sim S$ | 19) $\sim(M \cup S)$ | 20) $(M \cap S)^c$ |

21) Make a venn diagram showing the sets of even (E) and odd (O) numbers within the real numbers.

Draw the diagram above for each problem and shade the indicated region.

22) E

23) $\sim O$

24) $E \cup O$

25) $(E \cup O)'$

26) Make a venn diagram showing the integers 1-25. Show the sets of even (E) numbers and multiples (M) of three. Draw the diagram showing all integers 1-25.

Draw the diagram above for each problem and shade the indicated region.

27) M

28) $M \cap E$

29) $E \cup M$

30) $\sim(E \cup M)$

31) $\sim E$

32) Make a venn diagram showing the integers 1-25. Show the sets of odd (O) numbers and multiples (M) of four. Draw the diagram showing all integers 1-25.

Draw the diagram above for each problem and shade the indicated region.

33) O

34) $\sim M$

35) $M \cup O$

36) $M \cap O$

37) $\sim(M \cap O)$

38) Make a venn diagram showing sports that use a ball (B) and sports that don't use a ball (N).

Draw the diagram above for each problem and shade the indicated region.

39) B

40) $B \cup N$

41) $\sim B$

42) $B \cap N$

43) Make a venn diagram showing similarities and differences between a lion (L) and a horse (H).

Draw the diagram above for each problem and shade the indicated region.

44) $L \cup H$

45) $L \cap H$

46) $\sim L$

47) H^c

48) Make a venn diagram showing similarities and differences between an ocean (O) and a pond (P).

Draw the diagram above for each problem and shade the indicated region.

49) $O \cup P$

50) $O \cap P$

51) O'

52) $\sim P$

53) $(O \cap P)^c$