9.1 Set Theory and Probability

NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ HOUR: \_\_\_\_\_\_\_\_\_\_\_\_

1. Create and describe a SAMPLE SET A using at least ten numbers. Write it in set notation.

2. Create and describe another SAMPLE SET B using at least five numbers. Write it in set notation.

3. Create and describe a SUBSET C using numbers from set A. Write it in set notation.

Use the following sets for the following questions. The SAMPLE SPACE is the numbers 1 thru 14

Set D is the even numbers, Set E is the odd numbers, Set F is the multiples of 4 less than 15, Set G is the multiples of 3 less than 15.

4. Is 5. Is 6. Is

7. What is 8. What is

9. What is 10. What is

11. What is 12. What is

13. What is 14. What is

15. What is 16. What is

17. What is 18. What is

Use rolling a six-sided dice for the following question.

19. Write the sample space in Set Notation?

20. What is the 21. What is the

21. What is the 22. What is the

Use flipping two coins for the following questions. Let T be Tails and H be Heads.

23. What is the sample space for flipping two coins?

24. What is 25. What is

Use rolling two six-sided dice and sum them together, for the following Probability. For Example: 7 is the two dices numbers sum be 7.

26. Describe the Sample Space?

27. What is 28. What is

29. What is 30. What is