

Mathematics

Name: _____

Date: _____

List the members of the following sets

1. The set of even numbers between 11 and 20 _____{_____}_____
2. The set of prime numbers between 20 and 30 _____{_____}_____
3. The set of odd numbers between 0 and 10 _____{_____}_____
4. The set of composite numbers between 30 and 40 _____{_____}_____
5. The set of vowels in the word "ORANGE" _____{_____}_____

Write "finite", "infinite" or "null" for the following sets

6. The set of Grade 6 students who are adults. _____
7. The Set of classrooms at St. Hugh's Prep. _____
8. The set of stars in the sky. _____
9. The set of car manufacturing companies in Jamaica. _____
10. The set of multiples of 3. _____

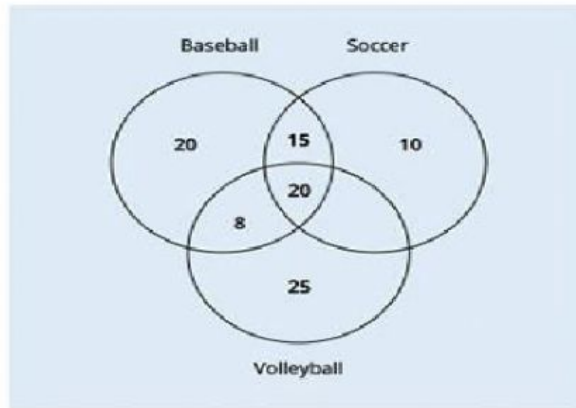
Write "equal" or "equivalent" for the following sets

11. Set M = {      } Set O = {      } _____
12. Set X = { C, O, R, P, S, E } Set Y = { S, C, O, P, E, R } _____
13. Set P = { Δ , $\diamond$, θ , $\pounds$, $\%$, $\$$ } Set A = { $\%$, Δ , θ , $\pounds$, $\diamond$, $\$$ } _____
14. Set V = { O, F, C, R, E } Set W = { F, O, R, C, E } _____

Find the intersection of the following sets

15. C = { H, E, R, I, T, A, G, E } F = { C, U, L, T, U, R, E } $C \cap F = \{ ______ \}$ _____
16. D = { Yam, rice, bread, food } L = { apple, food, fish, plum } $D \cap L = \{ ______ \}$ _____
17. R = { multiples of 4 less than 18 } K = { 6, 8, 10, 12, 14 } $R \cap K = \{ ______ \}$ _____

Answer the Question based on Venn diagram



- a) How many Students like both Baseball and Soccer? _____
- b) How Many Students like Volleyball? _____
- c) How Many Students Like Volleyball, Soccer and Baseball? _____
- d) How Many Students do not like volleyball? _____
- e) How Many Students like Soccer and Volleyball? _____
- f) How Many Students Like Either Baseball or Soccer? _____

Write the following numbers in standard form

- 18. 5 Ten thousands 6 thousands 4 hundreds 8 tens 9 ones = _____
- 19. 3 millions 6 hundred thousands 1 ten thousand 8 thousand 2 hundreds 6 tens 4 ones = _____
- 20. 9 hundreds 7 tens 5 ones = _____
- 21. 4 thousands 3 hundreds 7 tens 8 ones = _____

Write the following numbers in word form

- 22. 409 = _____
- 23. 1528 = _____
- 24. 16001 = _____
- 25. 864 = _____

Write the following numbers in Expanded form

26. 2367 = _____

27. 95174 = _____

28. 571 = _____

29. 98 = _____

Convert the following numbers to standard form

30. 2^9 = _____

31. 5^4 = _____

32. 8^3 = _____

33. 3^6 = _____