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venn diagram word problems with 3 circles Let us consider the three sets A, B

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and C. Set A contains a elements, B contains b elements and C contains c elements.

[Venn Diagram Word Problems with 3 Circles](#)

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In this video we go over a basic word problem involving three sets. We use a venn diagram to answer the series of questions.

[Venn Diagram - Three Circles](#)  
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Represent these results using a three circle Venn Diagram." The type of three circle Venn Diagram we will need is the following: Image Source: Passy's World of Mathematics. This three

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circle word problem is an easy one. All of the number values for each section of the diagram have been given to us in the question.

[Three Circle Venn Diagrams | \\_\\_\\_\\_\\_](#)  
[Passy's World of Mathematics](#)



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Following the same logic, we can write the formula for 3 circles Venn diagram:

$$n(A \cup B \cup C) = n(A) + n(B) + n(C) - n(A \cap B) - n(B \cap C) - n(C \cap A) + n(A \cap B \cap C)$$

As we already know how the

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Venn diagram works, we are going to give some practical examples (problems with solutions) from the real life.

[Venn Diagram Examples: Problems, Solutions, Formula](#)

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Draw Venn Diagram - With Universal Set. Six exclusive printable worksheets on Venn diagram word problems are included here. Draw three overlapping circles and fill

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in the regions using the information provided. Based on your findings, answer the word problems.

[Venn Diagram Word Problems Worksheets: Three Sets](#)

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We find that  $X \cap Y \cap Z = \{5, 6\}$ ,  $X \cap Y = \{1, 5, 6\}$ ,  $Y \cap Z = \{3, 5, 6, 8\}$  and  $X \cap Z = \{5, 6, 7\}$  For the Venn diagram: Step 1: Draw three overlapping circles to represent the three sets. Step 2: Write down the

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elements in the intersection  $X \cap Y \cap Z$ . Step 3: Write down the remaining elements in the intersections:

[Intersection Of Three Sets](#)  
(video lessons, examples and

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This video shows how to solve applications using Venn Diagrams. Example 1: <https://www.youtube.com/watch?v=oSLitQKUPIY>

[Solving Word Problems With](#)

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## [Venn Diagrams Three Sets](#)

Venn Diagram Word Problem.  
Here is an example on how to solve a Venn diagram word problem that involves three intersecting sets. Problem:  
90 students went to a school



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carnival. 3 had a hamburger, soft drink and ice-cream. 24 had hamburgers. 5 had a hamburger and a soft drink. 33 had soft drinks. 10 had a soft drink and ice-cream. 38 had ice-cream. 8 had a hamburger and ice-cream.

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[Venn Diagram Word Problems](#)  
[\(video lessons, examples and](#)

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A simple online Venn diagram maker tool to create a Venn diagram based on the values

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of the three sets. Enter the values of A, B and C; their universal and intersection value to create Venn Diagram for three sets using the Venn diagrams generator, solver.

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[3 Circle Venn Diagram Maker, Generator](#)

To understand, how to solve venn diagram word problems with 3 circles, we have to know the following basic stuff.  $u \rightarrow$  union (or)

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$n(A \cap B) \rightarrow$  intersection (and)

Addition Theorem on Sets.

Theorem 1 :  $n(A \cup B) = n(A) +$

$n(B) - n(A \cap B)$  Theorem 2 :

$n(A \cup B \cup C) := n(A) + n(B) +$

$n(C) - n(A \cap B) - n(B \cap C) -$

$n(A \cap C) + n(A \cap B \cap C)$

Explanation :

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[Word Problems on Sets and Venn Diagrams - onlinemath4all](#)

A Venn diagram is useful in organizing the information in this type of problem.

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Since the data refers to two categories, we will use a two-circle diagram. Let  $U$  be the set of people who were surveyed. Let  $E$  be the set of people who believe that Elvis is still alive. Let  $A$  be the set of people who

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believe that they have been abducted by space ...

[PART 1 MODULE 3 VENN DIAGRAMS AND SURVEY PROBLEMS EXAMPLE ...](#)

Let's start with an easy



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example of a two circle diagram problem. Venn Diagrams – Word Problem One  
"A class of 28 students were surveyed and asked if they ever had dogs or cats for pets at home. 8 students said they had only ever had

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a dog. 6 students said they had only ever had a cat. 10 students said they had a dog and a cat.

[Venn Diagram Word Problems | Passy's World of Mathematics](#)

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Venn diagram word problems generally give you two or three classifications and a bunch of numbers. You then have to use the given information to populate the diagram and figure out the remaining information. For

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instance: Out of forty students, 14 are taking English Composition and 29 are taking Chemistry.

[Venn Diagrams: Exercises | Purplemath](#)

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This example shows the 3 Circle Venn Diagram. The Venn Diagrams visualize all possible logical intersections between several sets. On this example you can see the intersections of 3 sets.

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Venn Diagrams are widely used in mathematics, logic, statistics, marketing, sociology, etc. Venn Diagram With 3 Sets

[3 Circle Venn. Venn Diagram](#)

[Example | 3 Circle Venn ...](#)

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You have 3 connected circles. Draw a circle, then draw one to its right where it overlaps the first one. Then draw another below these 2 where it overlaps the first two. (The URL

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should give you...

[Venn Diagrams/Logic Problem/Three circles/no clue ...](#)

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Venn diagrams, part 3 |



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#106120 Venn Diagrams | Literacy Strategies for the Math Classroom #106121

[Venn diagram math worksheets](#)

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What is a Venn Diagram? Venn diagram, also known as Euler-Venn diagram is a simple representation of sets by diagrams. The usual depiction makes use of a rectangle as the universal set and circles for the sets

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under consideration. In CAT and other MBA entrance exams, questions asked from this topic involve 2 or 3 variable only.

[Venn Diagram - Concept and Solved Questions -](#)

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The Corbettmaths Practice Questions on Venn Diagrams. Videos, worksheets, 5-a-day and much more

[Venn Diagrams Practice](#)

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Solving problems using Venn diagrams. You may be asked to solve problems using Venn diagrams in an exam. It is really important you draw the Venn diagram and add

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information as you go along.

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