

Drawing Venn Diagram - Without Universal Set

Draw: S1

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) The launch of a new supermarket in downtown NY was publicized through direct mail, the internet, and television.
- A total of 119 customers received direct mail;
 - 131 customers learnt about the launch through the internet;
 - 140 customers got to know about it through advertisements on television;
 - 25 customers were aware of the launch through direct mail and the internet but not television;
 - 19 of them came to know of it through direct mail and television but not internet;
 - 27 customers through the internet and television but not through direct mail; and
 - 16 customers heard about it from all three sources.

a) How many customers came to know about the launch of the supermarket only through advertisements on the television?

b) Write down the number of customers who were aware of the inauguration only via direct mail.

c) How many customers knew about the opening of the supermarket only through the internet?

d) List down the number of customers who were aware of the launch of the supermarket either through direct mail or the internet.

e) Find the number of customers who came to know about the inauguration of the supermarket through the internet or the television.

f) How many customers were aware about the grand opening of supermarket either through direct mail or the television?

g) After the use of all three modes of advertisement, how many customers in all were invited for the inauguration of the supermarket?

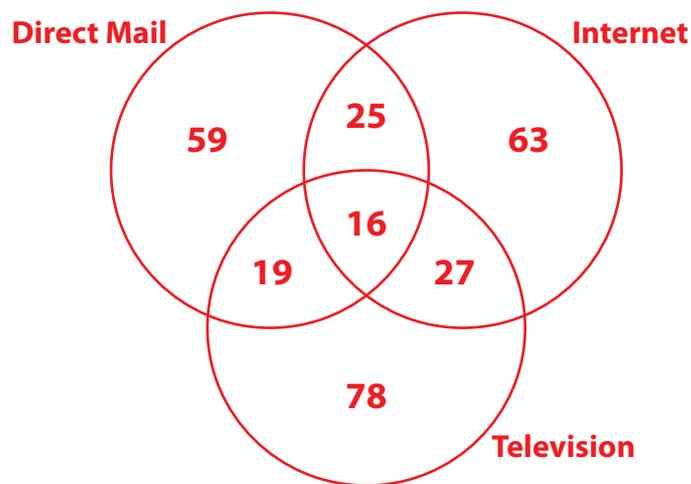
h) How many customers were aware of the opening of the supermarket through at least 2 of the three modes of advertisement used?

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 - 19 of them came to know of it through direct mail and television but not internet;
 - 27 customers through the internet and television but not through direct mail; and
 - 16 customers heard about it from all three sources.



- a) How many customers came to know about the launch of the supermarket only through advertisements on the television? 78 customers
- b) Write down the number of customers who were aware of the inauguration only via direct mail. 59 customers
- c) How many customers knew about the opening of the supermarket only through the internet? 63 customers
- d) List down the number of customers who were aware of the launch of the supermarket either through direct mail or the internet. 209 customers
- e) Find the number of customers who came to know about the inauguration of the supermarket through the internet or the television. 228 customers
- f) How many customers were aware about the grand opening of supermarket either through direct mail or the television? 224 customers
- g) After the use of all three modes of advertisement, how many customers in all were invited for the inauguration of the supermarket? 287 customers
- h) How many customers were aware of the opening of the supermarket through at least 2 of the three modes of advertisement used? 87 customers

Drawing Venn Diagram - Without Universal Set

Draw: S2

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) A survey was conducted among the students of Grade 8 to find their favorite music genres.
- Twenty-two students like rock music;
 - 35 students enjoy jazz;
 - 29 students like hip hop;
 - 5 students enjoy rock and jazz music but not hip hop;
 - 3 students like rock and hip hop but not jazz;
 - 7 students enjoy jazz and hip hop but not rock music; and
 - 4 students like all three genres of music.

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a) How many students a

b) Find the number of st

c) How many students e

d) How many students li
genres of music?

e) Find the number of students who enjoy hiphop and jazz.

f) How many students listen to either rock or hip hop music?

g) List the number of students who prefer only hip hop.

h) List down the number of students who are diehard fans of
rock music.

Drawing Venn Diagram - Without Universal Set

Draw: S2

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) A survey was conducted among the students of Grade 8 to find their favorite music genres.
- Twenty-two students like rock music;
 - 35 students enjoy jazz;
 - 29 students like hip hop;
 - 5 students enjoy rock and jazz music but not hip hop;
 - 3 students like rock and hip hop but not jazz;
 - 7 students enjoy jazz and hip hop but not rock music; and
 - 4 students like all three genres of music.

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- a) How many students a 7 students
- b) Find the number of st 63 students
- c) How many students e 9 students
- d) How many students li 19 students
genres of music?
- e) Find the number of students who enjoy hiphop and jazz. 11 students
- f) How many students listen to either rock or hip hop music? 44 students
- g) List the number of students who prefer only hip hop. 15 students
- h) List down the number of students who are diehard fans of 10 students
rock music.

Drawing Venn Diagram - Without Universal Set

Draw: S3

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) A car dealer in Paoli has 88 vehicles that are black in color, 65 hybrid cars and 103 sedans.
- 17 sedans are black in color but not of hybrid type;
 - 20 hybrid vehicles are black in color but not of sedan type;
 - 11 sedans are of hybrid type but not in black color; and
 - 6 sedans are of the hybrid type and are black in color.

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- a) How many sedans are _____
- b) Excluding sedans, how many vehicles are black in color? _____
- c) Find the number of sedans that are black in color. _____
- d) How many sedans include hybrid type? _____
- e) List the number of black vehicles that do not belong to the hybrid category. _____
- f) How many hybrid vehicles do not come under the category of sedans? _____
- g) Write down the total number of vehicles stocked by the car dealer. _____
- h) Find the number of black vehicles that belong to the hybrid category. _____

Drawing Venn Diagram - Without Universal Set

Draw: S3

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) A car dealer in Paoli has 88 vehicles that are black in color, 65 hybrid cars and 103 sedans.
- 17 sedans are black in color but not of hybrid type;
 - 20 hybrid vehicles are black in color but not of sedan type;
 - 11 sedans are of hybrid type but not in black color; and
 - 6 sedans are of the hybrid type and are black in color.

Black color **Hybrids**

- a) How many sedans are **23 sedans**
- b) Excluding sedans, how many vehicles are **93 vehicles**
black in color?
- c) Find the number of sedans that are **86 sedans**
black in color.
- d) How many sedans include both black color and **11 sedans**
hybrid type?
- e) List the number of black vehicles that do not belong to the **62 black vehicles**
hybrid category.
- f) How many hybrid vehicles do not come under the category of **48 hybrid vehicles**
sedans?
- g) Write down the total number of vehicles stocked by the car **196 vehicles**
dealer.
- h) Find the number of black vehicles that belong to the hybrid **26 black vehicles**
category.

Drawing Venn Diagram - Without Universal Set

Draw: S4

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) A community bank in Connecticut approved 11 auto loans, 10 business loans and 7 mortgages in one month.
- Two customers got a business loan and a mortgage approved but did not apply for an auto loan;
 - One customer signed up for an auto loan and a mortgage but did not apply for a business loan; and
 - Three customers were cleared for an auto and a business loan but not for a mortgage.

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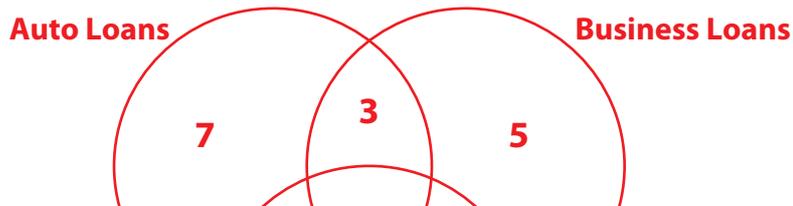
- a) Find the number of customers who applied for an auto loan, business loan, and a mortgage. _____
- b) How many bank approvals were for a business loan? _____
- c) List the total number of customers who applied to the community bank in Connecticut. _____
- d) Find the number of loans/mortgages that were exclusively approved by the bank. _____
- e) How many business loans were approved by the bank? _____
- f) Find the number of loans approved by the bank, that fell in either of the two categories - auto loans or mortgages. _____
- g) How many customers got at least 2 of the 3 loans/mortgages cleared by the community bank? _____
- h) List the number of customers that received approvals for either a mortgage or a business loan. _____

Drawing Venn Diagram - Without Universal Set

Draw: S4

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) A community bank in Connecticut approved 11 auto loans, 10 business loans and 7 mortgages in one month.
- Two customers got a business loan and a mortgage approved but did not apply for an auto loan;
 - One customer signed up for an auto loan and a mortgage but did not apply for a business loan; and
 - Three customers were cleared for an auto and a business loan but not for a mortgage.



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- a) Find the number of customers who received approvals for an auto loan, business loan, and a mortgage. None
- b) How many bank approvals were for a business loan? (mortgage approvals)
- c) List the total number of loans/mortgages approved by the community bank in Connecticut. 22 loans
- d) Find the number of loans/mortgages approved that were exclusively for business loans. 7 loans
- e) How many business loans/mortgages were approved? 10 business loans
- f) Find the number of loans approved by the bank, that fell in either of the two categories - auto loans or mortgages. 17 loans
- g) How many customers got at least 2 of the 3 loans/mortgage cleared by the community bank? 6 customers
- h) List the number of customers that received approvals for either a mortgage or a business loan. 15 customers

Drawing Venn Diagram - Without Universal Set

Draw: S5

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) In a sports club, 23 members play tennis, 17 members use the pool facility and 24 members use the gym.
- 4 members play tennis and use the pool but do not work out at the gym;
 - 5 members work out at the gym and also play tennis but do not use the pool;
 - 3 members use the gym and the pool facilities but do not play tennis; and
 - 2 member uses all the three facilities at the club.

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- a) How many members _____
- b) List the total number of _____
facilities. _____
- c) Find the number of members who use _____
the gym facilities. _____
- d) How many club members use _____

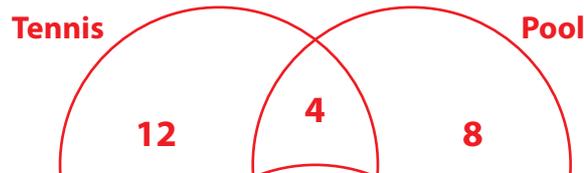
- e) List the number of club members who do not use the gym. _____
- f) Find the number of members who use only the pool _____
facility at the health club. _____
- g) How many members do not play tennis? _____
- h) Write down the number of members who either play tennis _____
or use the gym facility. _____

Drawing Venn Diagram - Without Universal Set

Draw: S5

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) In a sports club, 23 members play tennis, 17 members use the pool facility and 24 members use the gym.
- 4 members play tennis and use the pool but do not work out at the gym;
 - 5 members work out at the gym and also play tennis but do not use the pool;
 - 3 members use the gym and the pool facilities but do not play tennis; and
 - 2 member uses all the three facilities at the club.



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- a) How many members use both the pool and tennis facilities? **14 members**
- b) List the total number of members who use both the pool and tennis facilities. **48 members**
- c) Find the number of members who use both the pool and tennis facilities. **36 members**
- d) How many club members use both the pool and tennis facilities? **12 members**
- e) List the number of club members who do not use the gym. **24 members**
- f) Find the number of members who use only the pool facility at the health club. **8 members**
- g) How many members do not play tennis? **25 members**
- h) Write down the number of members who either play tennis or use the gym facility. **40 members**

Drawing Venn Diagram - Without Universal Set

Draw: S6

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) Nineteen homeowners in Jefferson lane have built houses with multi-level decks. Twenty-four of them have constructed swimming pools in their houses and 30 homeowners have built tree houses in their backyard.
- 6 homes have a multi-level deck and a swimming pool but not a tree house;
 - 4 homes have a swimming pool and a tree house but do not have a multi-level deck;
 - 3 homes have a multi-level deck and a tree house but not a swimming pool; and
 - One home on Jefferson lane has all the 3 features.

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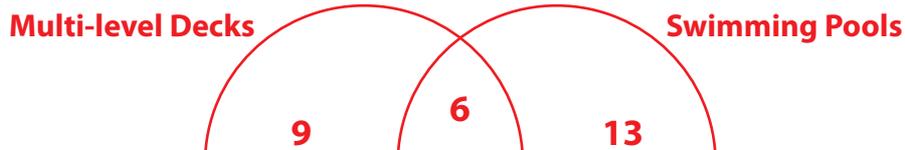
- a) How many homeowners have constructed their property? _____
- b) Find the number of homes constructed on their property? _____
- c) Write down the number of swimming pools. _____
- d) How many homeowners have constructed their properties? _____
- e) How many homes on Jefferson lane have a tree house but not a pool? _____
- f) How many homes do not have a pool constructed on their property? _____
- g) List the number of homes on Jefferson lane that have at least one of the three features mentioned in the data provided. _____
- h) How many properties in Jefferson lane have either a deck or a tree house? _____

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Draw: S6

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- 1) Nineteen homeowners in Jefferson lane have built houses with multi-level decks. Twenty-four of them have constructed swimming pools in their houses and 30 homeowners have built tree houses in their backyard.
- 6 homes have a multi-level deck and a swimming pool but not a tree house;
 - 4 homes have a swimming pool and a tree house but do not have a multi-level deck;
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- | | |
|--|----------------------|
| a) How many homeowners own their property? | 19 homeowners |
| b) Find the number of homes constructed on their property. | 28 homeowners |
| c) Write down the number of swimming pools. | 13 homes |
| d) How many homeowners own their properties? | 39 homeowners |
| e) How many homes own a deck but not a pool? | 22 homes |
| f) How many homes do not have a pool constructed on their property? | 34 homes |
| g) List the number of homes on Jefferson lane that have at least one of the three features mentioned in the data provided. | 58 homes |
| h) How many properties in Jefferson lane have either a deck or a tree house? | 45 properties |