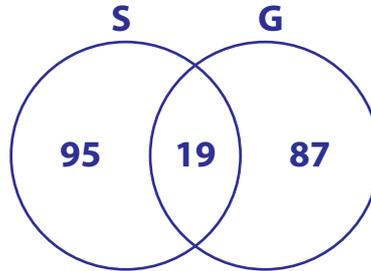


Venn Diagram - Without Universal Set

Standard: S1

Read each Venn diagram and answer the questions that follow.

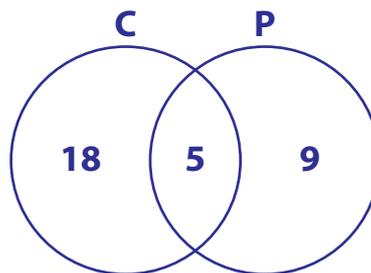
- 1) A leasing company conducted a survey to find how many residents in an apartment complex use the swimming pool (**S**) and gym (**G**) facilities.



a) How many residents use both facilities? _____

b) How many of them use the gym? _____

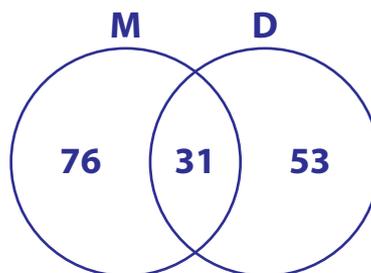
- 2) The Venn diagram below displays the breakfast preferences of the children in Mrs. Saunder's class. They chose between cereals (**C**) and pancakes (**P**).



a) How many children prefer only pancakes? _____

b) What is the total strength of Mrs. Saunder's class? _____

- 3) A chocolate manufacturer conducted a survey among visitors to find which flavor of chocolate was more popular - milk chocolates (**M**) or dark chocolates (**D**).



a) How many visitors preferred dark chocolate? _____

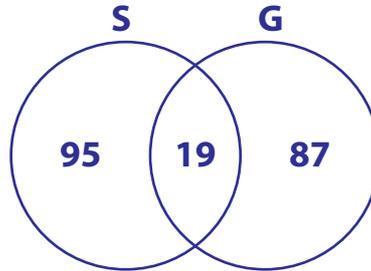
b) Find the total number of visitors who took part in the survey. _____

Venn Diagram - Without Universal Set

Standard: S1

Read each Venn diagram and answer the questions that follow.

- 1) A leasing company conducted a survey to find how many residents in an apartment complex use the swimming pool (**S**) and gym (**G**) facilities.



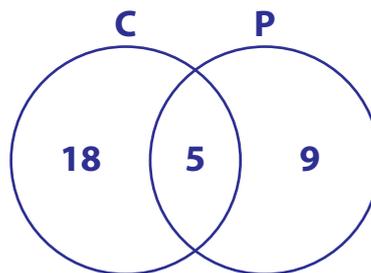
- a) How many residents use both facilities?

19 residents

- b) How many of them use the gym?

106 residents

- 2) The Venn diagram below displays the breakfast preferences of the children in Mrs. Saunder's class. They chose between cereals (**C**) and pancakes (**P**).



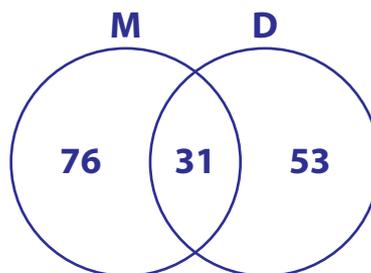
- a) How many children prefer only pancakes?

9 children

- b) What is the total strength of Mrs. Saunder's class?

32 children

- 3) A chocolate manufacturer conducted a survey among visitors to find which flavor of chocolate was more popular - milk chocolates (**M**) or dark chocolates (**D**).



- a) How many visitors preferred dark chocolate?

84 visitors

- b) Find the total number of visitors who took part in the survey.

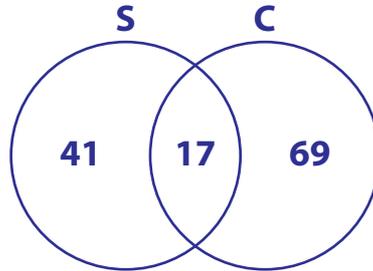
160 visitors

Venn Diagram - Without Universal Set

Standard: S2

Read each Venn diagram and answer the questions that follow.

- 1) The Venn diagram below represents the number of employees in an office who use either the subway (**S**) or the car (**C**) to get to work.



a) How many employees use both modes of transport to get to office? _____

b) How many employees use the subway? _____

- 2) The Venn diagram below represents the number of customers who deposited checks (**D**) and withdrew cash (**W**) on Monday.

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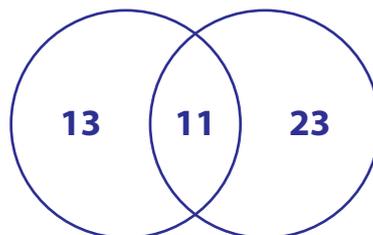
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a) How many customers deposited checks? _____

b) Find the number of cash deposits. _____

- 3) The Venn diagram below represents the number of students who speak Spanish (**S**) in Ms. E's class and Russian (**R**) and



a) How many students speak Russian? _____

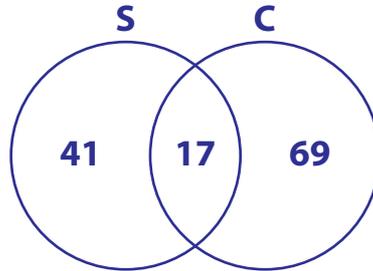
b) Find the number of students who are fluent in both foreign languages. _____

Venn Diagram - Without Universal Set

Standard: S2

Read each Venn diagram and answer the questions that follow.

- 1) The Venn diagram below represents the number of employees in an office who use either the subway (**S**) or the car (**C**) to get to work.



- a) How many employees use both modes of transport to get to office?

17 employees

- b) How many employees use the subway to get to office?

69 employees

- 2) The Venn diagram below represents the number of customers who deposited checks (**D**) and withdrew cash (**W**) on Monday.

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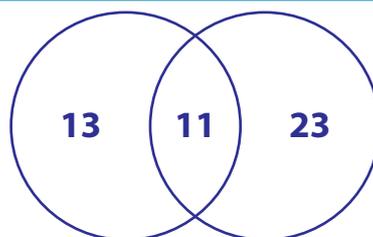
- a) How many customers deposited checks?

44 customers

- b) Find the number of customers who withdrew cash.

30 customers

- 3) The Venn diagram below represents the number of students who speak Spanish (**S**) in Ms. E's class and Russian (**R**) and



- a) How many students speak Russian?

24 students

- b) Find the number of students who are fluent in both foreign languages.

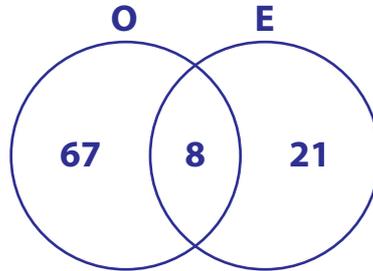
11 students

Venn Diagram - Without Universal Set

Standard: S3

Read each Venn diagram and answer the questions that follow.

- 1) The Venn diagram illustrates the number of families who adopted owls (O) and /or eagles (E) at a zoo.



a) How many families adopted eagles? _____

b) Find the number _____

- 2) A vending machine _____
the employees of a _____

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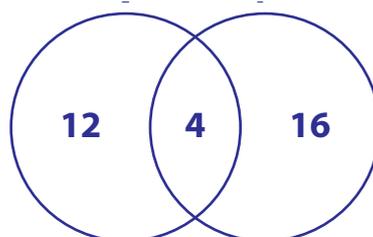
hot beverages among
hot chocolate (H). _____

a) How many empl _____

b) Determine the t _____
participated in t _____

- 3) The Venn diagram k _____
of Becker Lane. The _____

nation among residents
and Florida (F). _____



a) How many residents liked to holiday in Virginia? _____

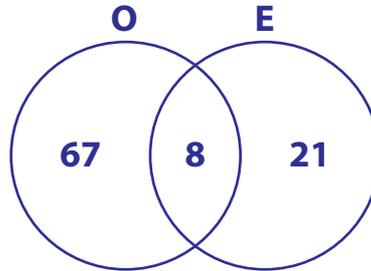
b) Find the number of residents who preferred Florida
over Virginia. _____

Venn Diagram - Without Universal Set

Standard: S3

Read each Venn diagram and answer the questions that follow.

- 1) The Venn diagram illustrates the number of families who adopted owls (**O**) and /or eagles (**E**) at a zoo.



- a) How many families adopted eagles?

29 families

- b) Find the number

67 families

- 2) A vending machine has hot beverages among the employees of a company. The machine also has hot chocolate (**H**).

hot beverages among the employees of a company. The machine also has hot chocolate (**H**).

- a) How many employees

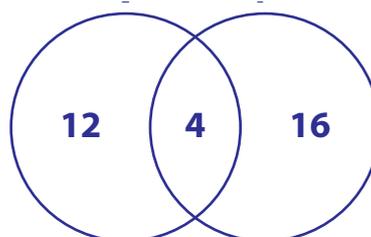
87 employees

- b) Determine the total number of employees who participated in the survey.

139 employees

- 3) The Venn diagram illustrates the number of residents who preferred Virginia and Florida.

of residents who preferred Virginia and Florida (**F**).



- a) How many residents liked to holiday in Virginia?

16 residents

- b) Find the number of residents who preferred Florida over Virginia.

16 residents