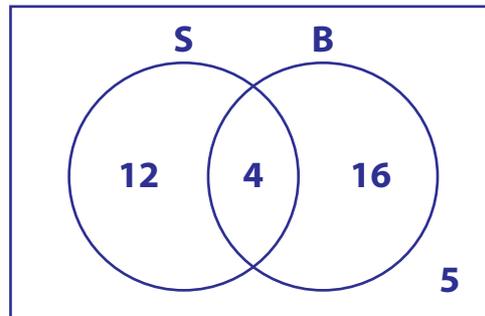


Venn Diagram - With Universal Set

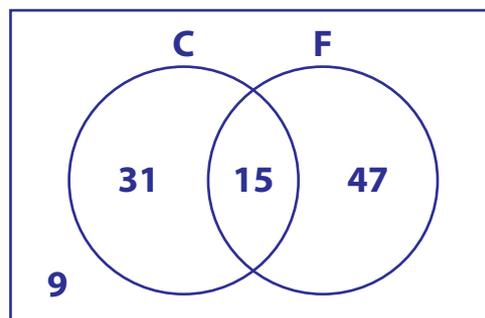
Standard: S1

Read each Venn diagram and answer the questions that follow.

- 1) The Venn diagram below represents the students in Grade 5 who have enrolled for the school Soccer (**S**) and /or Baseball (**B**) summer camps.



- a) What is the total strength of Grade 5? _____
- b) How many students have not enrolled for the summer camps? _____
- c) How many students of Grade 5 have enrolled for the baseball camp? _____
- 2) The Venn diagram displays the number of customers who ordered chicken nuggets (**C**) and French fries (**F**) at Joe's diner on a Saturday evening.



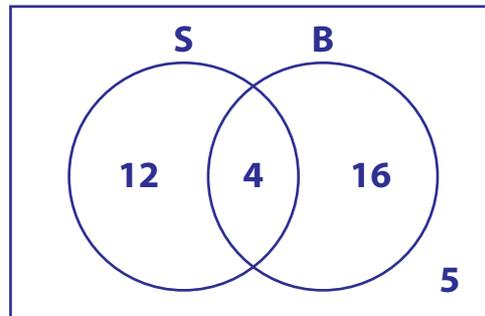
- a) How many customers placed orders for French fries alone? _____
- b) How many customers chose to order something else on the menu? _____
- c) How many customers in all did Joe's diner serve on Saturday evening? _____

Venn Diagram - With Universal Set

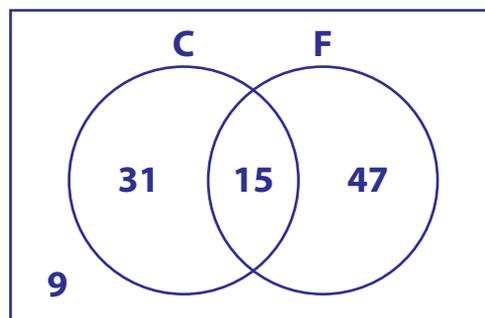
Standard: S1

Read each Venn diagram and answer the questions that follow.

- 1) The Venn diagram below represents the students in Grade 5 who have enrolled for the school Soccer (**S**) and /or Baseball (**B**) summer camps.



- a) What is the total strength of Grade 5? 37 students
- b) How many students have not enrolled for the summer camps? 5 students
- c) How many students of Grade 5 have enrolled for the baseball camp? 20 students
- 2) The Venn diagram displays the number of customers who ordered chicken nuggets (**C**) and French fries (**F**) at Joe's diner on a Saturday evening.



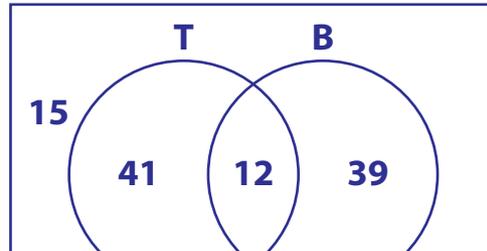
- a) How many customers placed orders for French fries alone? 47 customers
- b) How many customers chose to order something else on the menu? 9 customers
- c) How many customers in all did Joe's diner serve on Saturday evening? 102 customers

Venn Diagram - With Universal Set

Standard: S2

Read each Venn diagram and answer the questions that follow.

- 1) Ms. Eva conducted a survey among nearby preschools to find the children’s favorite rhymes. The top two choices were ‘Twinkle twinkle little star’ (T) and ‘Baa baa black sheep’ (B).



- a) How many children chose 'twinkle little star'?
- b) Find the number of children who chose both rhymes.
- c) How many children chose 'Baa baa black sheep'?

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- 2) The Venn diagram below shows the number of dancers who took part in a Spring ballet recital.



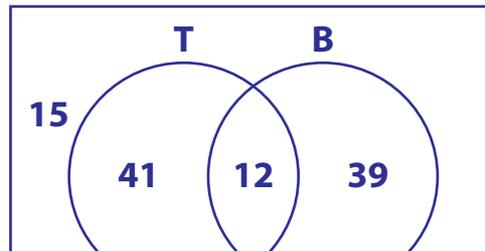
- a) Find the number of dancers who were sporting neither pink nor blue costumes. _____
- b) How many dancers in all participated in the ballet recital? _____
- c) How many dancers donned blue costumes alone? _____

Venn Diagram - With Universal Set

Standard: S2

Read each Venn diagram and answer the questions that follow.

- 1) Ms. Eva conducted a survey among nearby preschools to find the children's favorite rhymes. The top two choices were 'Twinkle twinkle little star' (T) and 'Baa baa black sheep' (B).



- a) How many children chose 'twinkle little star'?
- b) Find the number of children who chose both 'twinkle little star' and 'Baa baa black sheep'.
- c) How many children chose 'Baa baa black sheep'?

53 children

15 children

107 children

- 2) The Venn diagram below shows the number of dancers who participated in a Spring ballet recital.

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_____ took part in a
pink (P) costumes.

- a) Find the number of dancers who were sporting neither pink nor blue costumes.

4 dancers

- b) How many dancers in all participated in the ballet recital?

33 dancers

- c) How many dancers donned blue costumes alone?

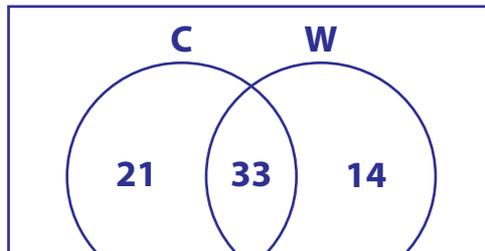
9 dancers

Venn Diagram - With Universal Set

Standard: S3

Read each Venn diagram and answer the questions that follow.

- 1) Mr. Andrews, a HR manager, interviewed job applicants and represented their skills in the Venn diagram below. The required skills were excellent communication (C) and relevant work experience (W).



- a) What number of applicants met both his requirements?
 b) Find the number of applicants who have excellent communication but not relevant work experience.
 c) How many applicants have relevant work experience but not excellent communication?
- 2) The Venn diagram below shows the number of students at Hatfield who would like to submit an application to MIT (M) and Columbia University (C).

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students at Hatfield who
mbia university (C).

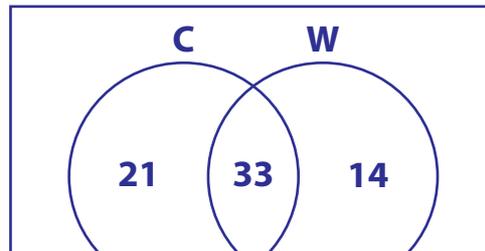
- a) How many students would like to apply at Columbia university?
 b) Find the number of students who prefer only MIT.
 c) How many students prefer to apply to universities other than MIT and Columbia University?

Venn Diagram - With Universal Set

Standard: S3

Read each Venn diagram and answer the questions that follow.

- 1) Mr. Andrews, a HR manager, interviewed job applicants and represented their skills in the Venn diagram below. The required skills were excellent communication (**C**) and relevant work experience (**W**).



- a) What number of applicants met both his requirements?
- b) Find the number of applicants who have excellent communication but not relevant work experience.
- c) How many applicants have excellent communication or relevant work experience?
- 2) The Venn diagram below shows the number of students at Hatfield who would like to submit an application to MIT (M) and Columbia university (C).

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33 applicants

18 applicants

86 applicants

students at Hatfield who
mbia university (**C**).

- a) How many students would like to apply at Columbia university?
- b) Find the number of students who prefer only MIT.
- c) How many students prefer to apply to universities other than MIT and Columbia University?

69 students

38 students

10 students
