

**Drawing Venn Diagram - With Universal Set**

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

- 1) Students of Grade 3 attended a school carnival-
- 25 students indulged in funnel cakes;
  - 26 students munched on popcorn;
  - 22 of them drank lemonade;
  - 9 students ate both funnel cake and popcorn but did not drink lemonade;
  - 4 of them munched on popcorn and also drank lemonade but did not eat funnel cake;
  - 7 students had funnel cakes and drank lemonade but did not eat popcorn;
  - 6 students indulged in funnel cakes, popcorn, and lemonade; and
  - 2 students could not eat the carnival.

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- a) Find the number of students who did not eat at the carnival.
- b) How many students indulged in both funnel cakes and popcorn?
- c) Write down the number of students who ate funnel cake and popcorn.
- d) How many students drank lemonade?
- e) Find the number of students who munched only on popcorn at the carnival.
- f) How many students of Grade 3 did not drink lemonade?
- g) Find the number of students who consumed at least 2 of the 3 items.
- h) How many students of Grade 3 either consumed funnel cake or drank lemonade ?

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a) Find the number of students who did not eat the carnival.

**5 students**

b) How many students indulged in funnel cakes and popcorn?

**43 students**

c) Write down the number of students who drank lemonade and popcorn.

**15 students**

d) How many students indulged in funnel cakes and drank lemonade?

**5 students**

e) Find the number of students who munched only on popcorn at the carnival.

**7 students**

f) How many students of Grade 3 did not drink lemonade?

**21 students**

g) Find the number of students who consumed at least 2 of the 3 items.

**26 students**

h) How many students of Grade 3 either consumed funnel cake or drank lemonade ?

**34 students**