

Set Theory

Answer the past BJC question

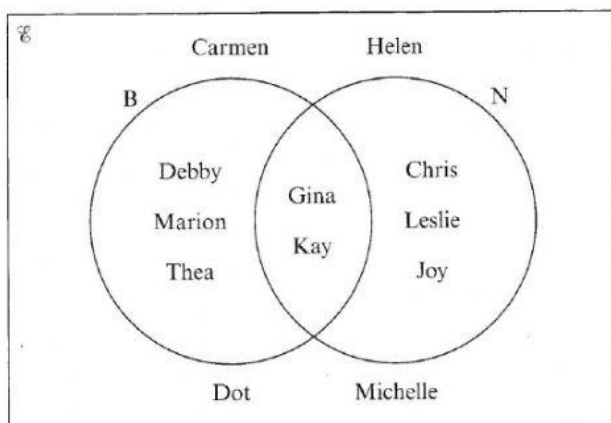
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ROUGH WORK

16. The Venn diagram below shows the results of a class survey.

$B = \{ \text{students who play basketball} \}$

$N = \{ \text{students who wear New shoes} \}$



- (a) How many students play basketball?

Answer: _____ [1]

- (b) Which students play basketball and wear new shoes?

Answer: _____ [1]

- (c) Write down $n(B \cap N)$.

Answer: _____ [2]

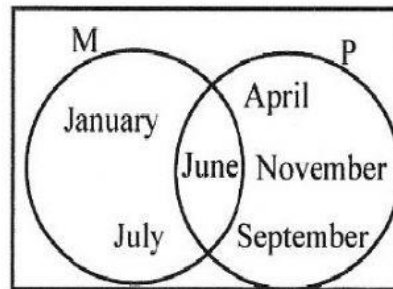
- (d) To which group does Michelle belong?

Answer: _____ [2]

- (e) How many students are in the class?

Answer: _____ [1]

8. Use the Venn diagram below to answer the following questions.



- (a) List the members of M.

Answer: { _____
_____ } [1]

- (b) Describe the members of M.

Answer: { _____
_____ } [2]

- (c) List the members of

- (i) $M \cup P$,

Answer: { _____
_____ } [2]

- (ii) $M \cap P$.

Answer: { _____ } [1]

- (d) State the number in $n(P)$.

Answer: _____ [1]