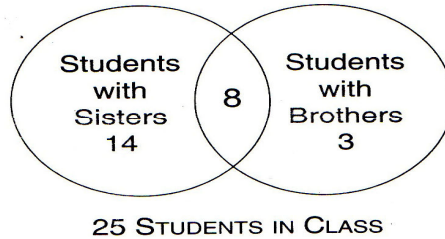


Name \_\_\_\_\_  
 Math HW Venn diagrams      Statistics

#1 Use the Venn diagram to answer the questions.



**Part A**

What does the 8 represent in the diagram?

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**Part B**

Explain how many students in class have brothers.

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#2

#3

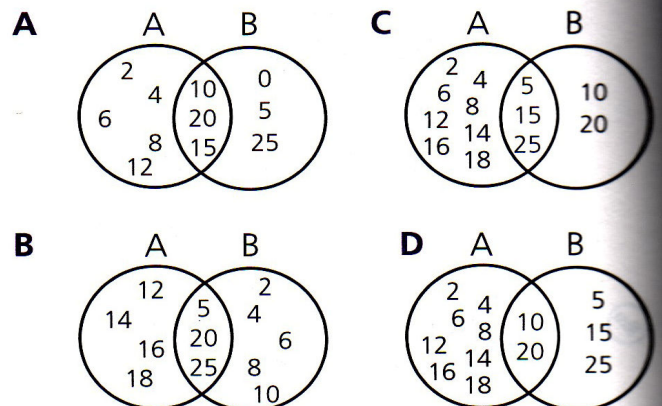
Look at this Venn diagram.



If Joan plays soccer but not baseball, where should her name be placed?

- A** In set A but not set B.
- B** In set B but not set A.
- C** In the intersection of sets A and B.
- D** Outside both sets A and B.

Set A is the set of all even numbers between 2 and 20. Set B is the set of all multiples of 5 between 0 and 25. Which Venn diagram shows this information?



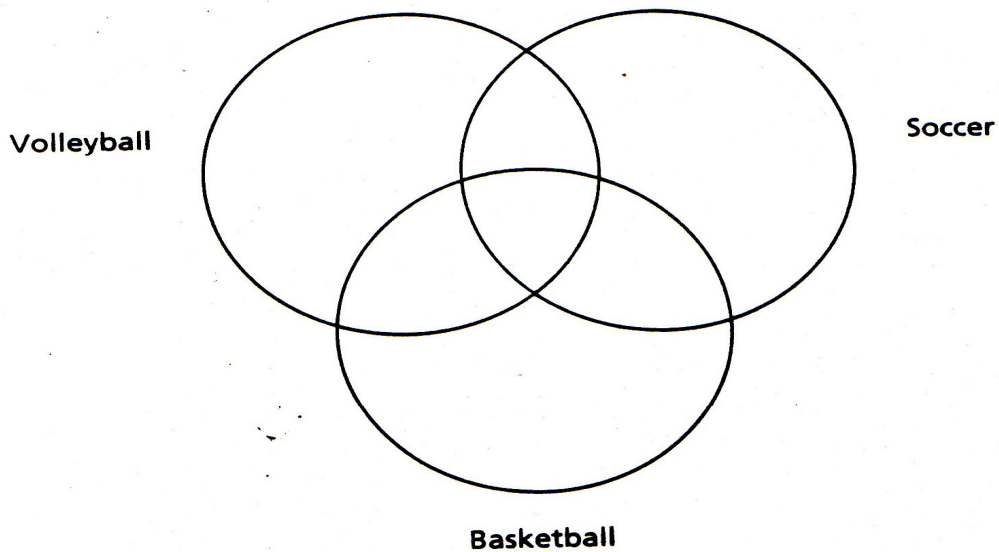
#4

The physical education department distributed a survey asking the students in which three sports they participate: volleyball, soccer, or basketball. They received the following results:

- 29 students participate only in volleyball
- 31 students participate only in soccer
- 5 students participate in all three sports
- 2 students participate in soccer and basketball, but NOT in volleyball
- 1 student participates in volleyball and soccer, but NOT in basketball
- 39 students participate in volleyball
- 102 students participate in at least one of the three sports

**Part A**

Complete the Venn diagram below to reflect the results of the survey.



**Part B**

On the lines below, explain how to find the total number of students that participate in basketball.

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#5

In a class of 30 students, every student studies Spanish and/or French. Eighteen students study only Spanish, and 4 students study both Spanish and French.

**Part A**

Create a Venn diagram to show the situation.

**Part B**

How many students study only French?