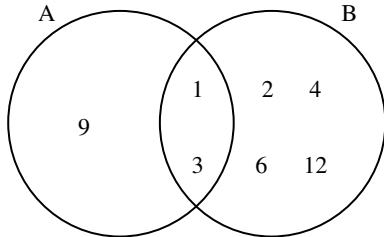


Alg Mini MA912D72 Form A

1 The diagram shows a Venn diagram for sets A and B . What is the intersection?

Set A: factors of 9

Set B: factors of 12



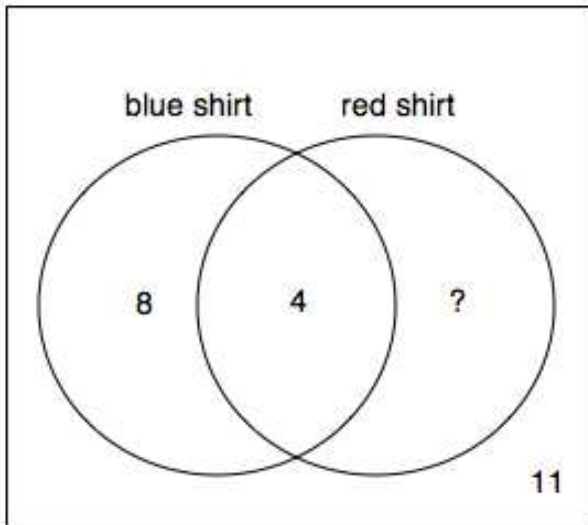
A. {1}

C. {2, 4, 6, 12}

B. {1, 3}

D. {9}

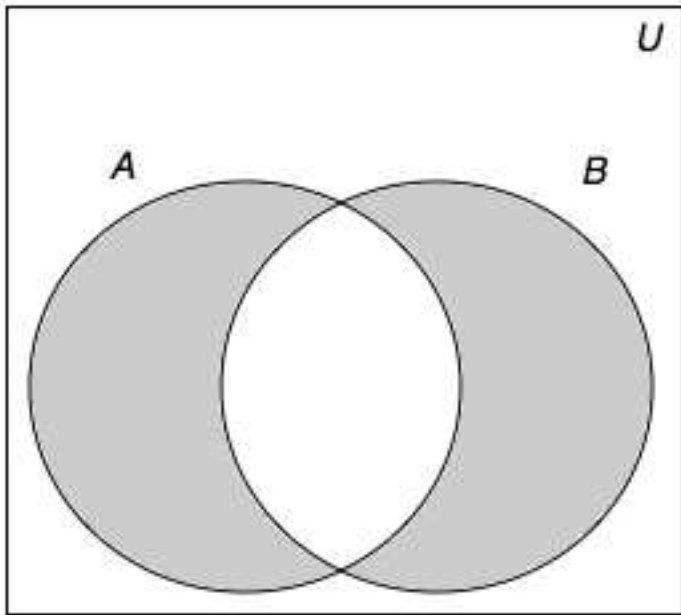
2 30 people were asked if they wore a blue shirt or a red shirt this week. The Venn diagram shows the results of the survey.



What is the missing value in the Venn diagram?

F. 7 G. 12 H. 18 I. 19

3 Look at the Venn diagram below. It shows set A and set B in the universe U . Which description represents the shaded regions?



A. the complement of $(A \cap B)$ in U **B.** $(A \cup B) \cup$ (the complement of A) **C.** (the complement of $(A \cap B)$ in U) \cap $(A \cup B)$ **D.** $A \cup B$

- 4 40 candidates apply for a unique job. The job has both a height requirement and a weight requirement. The following information is known about the candidates:

21 candidates meet the height requirement;
 17 candidates meet the weight requirement;
 8 candidates meet both the weight and height requirements.

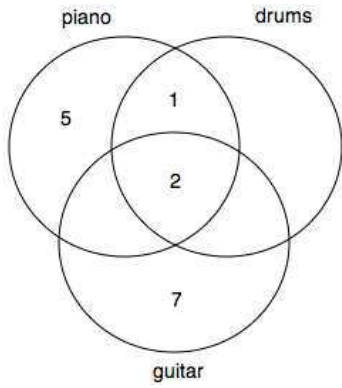
How many candidates meet only the height requirement?

F. 8 G. 9 H. 13 I. 21

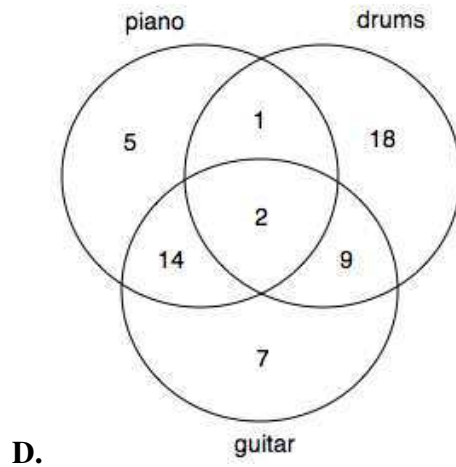
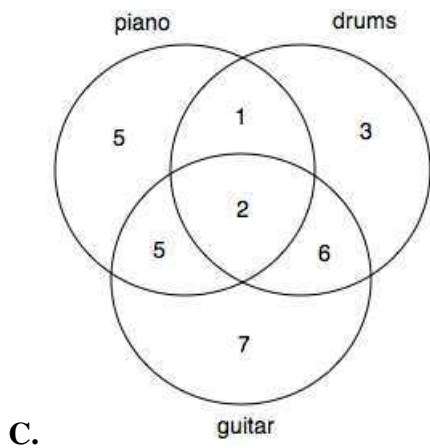
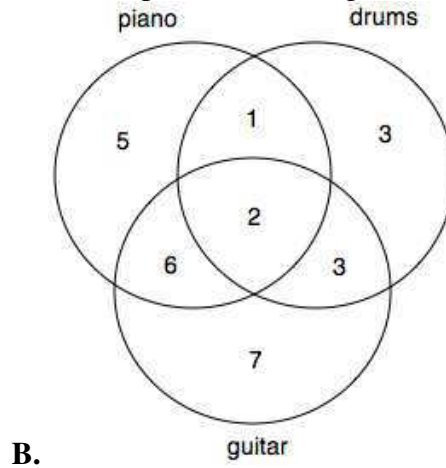
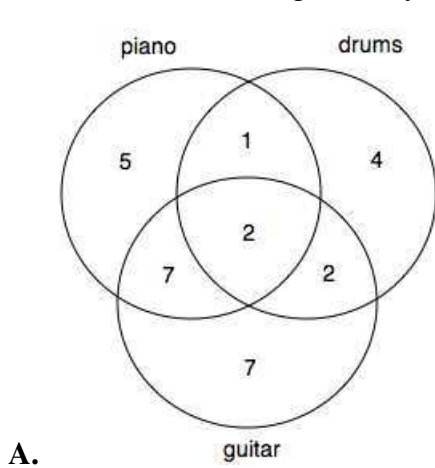
- 5 In Mr. Rojo's music class, 14 students play piano, 18 students play guitar, and 9 play drums. No student plays any other instruments. The following information is also true:

7 students play only guitar;
 2 students play all three instruments;
 5 students play only piano;
 1 student plays piano and drums, but not guitar

This information is placed in a Venn diagram as shown:



Which of the following correctly shows the completed Venn diagram?



Alg Mini MA912D72 Form A

Answer Section

1	ANS: B	PTS: 1	STA: MA.912.D.7.2
2	ANS: F	PTS: 1	STA: MA.912.D.7.2
3	ANS: C	PTS: 1	STA: MA.912.D.7.2
4	ANS: H	PTS: 1	STA: MA.912.D.7.2
5	ANS: B	PTS: 1	STA: MA.912.D.7.2