

Questions 1-5

Seven students—Gertrude, Henry, John, Katherine, Linda, Mary, and Nancy—stand in line at a water fountain. Each student stands in one of seven spots in line, and the spots are numbered 1-7 from front to back. The students stand in line in accordance with the following conditions:

- Gertrude must stand before Linda.
- Katherine must not stand second in line.
- Nancy stands third in line.
- Henry must stand after Gertrude.
- Mary stands either fourth or sixth in line.

1. From front to back, in which of the following orders could the students be standing?

- (A) Gertrude, Katherine, Nancy, Mary, Linda, John, Henry
- (B) John, Gertrude, Nancy, Katherine, Linda, Mary, Henry
- (C) Linda, John, Nancy, Gertrude, Henry, Mary, Katherine
- (D) Katherine, Gertrude, Nancy, Linda, Mary, John, Henry
- (E) Gertrude, John, Katherine, Nancy, Henry, Mary, Linda

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2. If Gertrude is fourth in line, which of the following must be true?

- (A) Linda is fifth in line.
- (B) John is first in line.
- (C) Linda is seventh in line.
- (D) Katherine is seventh in line.
- (E) John is second in line.

3. If John is sixth in line, which of the following CANNOT be true?

- (A) Gertrude is fifth in line.
- (B) Linda is fifth in line.
- (C) Katherine is first in line.
- (D) Gertrude is second in line.
- (E) Henry is second in line.

4. If Gertrude is fifth in line, which of the following could be true?

- (A) Henry is second in line.
- (B) Linda is sixth in line.
- (C) Mary is sixth in line.
- (D) John is first in line.
- (E) Katherine is fourth in line.

5. Assuming that Linda and Henry stand directly next to each other in line, which of the following CANNOT be true?

- (A) Gertrude is second in line.
- (B) Henry is fourth in line.
- (C) John is second in line.
- (D) Katherine is first in line.
- (E) John is fourth in line.