

Questions 1-5

Out of a group of exactly 12 employees—Aimee, Aimey, Aimie, Aimy, Ameer, Amey, Ami, Amie, Amy, Aymee, Aymey, and Aymie—at least four participate in a teambuilding exercise. No other employees participate.

The following conditions apply:

Aimee participates if Aymie does not.

Unless Amey does not participate, Aimie does not participate.

If Aimey does not participate, then Aimy also does not participate.

Aimie participates only if Aimy participates.

Aimee does not participate if Aymey does not participate.

Unless Amy participates, Amie does not participate.

If Ameer does not participate, then Amey participates.

Either Aymee or Aimey does not participate.

Aimie does not participate only if Ami does.

Ameer and Aymee cannot both participate.

Amie participates if Amey does not.

Aimee does not participate unless Ami does not participate.

1. Which of the following could be a complete and accurate list of the employees who participate in the teambuilding exercise?

- (A) Aimey, Aimie, Aimy, Ameer, Amie, Amy
- (B) Aimee, Aimey, Aimie, Aimy, Ameer, Amie, Aymey
- (C) Aimey, Amey, Ami, Aymie
- (D) Aimey, Amey, Ami, Aymee, Aymie
- (E) Aimee, Aimey, Aimie, Aimy, Amie, Amy, Aymey

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2. If both Aimie and Ami participate in the teambuilding exercise, which of the following CANNOT be true?

- (A) Aymey does not participate.
- (B) Aymie participates.
- (C) Aymey participates.
- (D) Amey does not participate.
- (E) Amy does not participate.

3. What is the maximum number of employees who could participate in the teambuilding exercise?

- (A) 6
- (B) 7
- (C) 8
- (D) 9
- (E) 10

4. If Aymie does not participate in the teambuilding exercise, then which of the following is a complete and accurate list of the employees that must participate?

- (A) Aimee, Aimey, Aimie, Aimy, Ameer, Amie, Amy, Aymey
- (B) Aimee, Aimey, Aimie, Aimy, Ameer, Amey, Amie, Amy, Aymey
- (C) Aimee, Aimey, Aimie, Aimy, Ameer, Amie, Amy
- (D) Aimee, Aimey, Aimie, Aimy, Aymey, Amie, Amy, Aymey
- (E) Aimee, Aimey, Aimie, Ameer, Amie, Amy, Aymey

5. Which of the following is a pair of employees in which not both could participate in the teambuilding exercise?

- (A) Aimey and Aymie
- (B) Aimie and Aymey
- (C) Aymey and Aymie
- (D) Aimee and Aymey
- (E) Aimie and Amy