DeducePuzzles

Data sufficiency questions with answers

15 exam-shaped questions with full worked solutions.
For IBPS · SBI · RRB · SSC reasoning.

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The questions

Work them on paper first. Full solutions start after question 15 — the numbering matches.

QUESTION 1

Each person lives on a different floor (1–4). Which statements are sufficient to fix EVERY person's floor?

Statement I: Anjali lives on the floor immediately above Harsh; Yash lives on a floor somewhere above Chetan; Anjali lives on an odd-numbered floor. Statement II: Yash lives on an even-numbered floor; Anjali lives on a floor somewhere above Chetan; Harsh lives on the floor immediately above Chetan.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 2

4 people are ranked from 1 (highest) to 4 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.

Statement I: Kiran is 3rd from the top; Exactly 2 people are ranked between Yash and Arjun; Kiran is ranked immediately below Sanjay. Statement II: Kiran is ranked lower than Sanjay; Sanjay is 2nd from the top.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 3

Each person lives on a different floor (1–5). Which statements are sufficient to fix EVERY person's floor?

Statement I: Uma lives on the topmost floor; Meera lives on the floor immediately above Karan; There are exactly 2 floors between Uma and Manish. Statement II: Uma lives on the floor immediately above Meera; There is exactly 1 floor between Manish and Meera; Uma lives on a floor somewhere above Karan; Manish lives on the floor immediately above Vikram.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 4

5 people are ranked from 1 (highest) to 5 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.

Statement I: Exactly 3 people are ranked between Jaya and Sneha; Aditi is ranked immediately below Jaya; Tarun is ranked immediately below Geeta. Statement II: Tarun is 2nd from the bottom; Exactly 2 people are ranked between Tarun and Jaya.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 5

Each person lives on a different floor (1–5). Which statements are sufficient to fix EVERY person's floor?

Statement I: There is exactly 1 floor between Zoya and Deepak; Nikhil lives on a floor somewhere above Deepak; There are exactly 3 floors between Lata and Nikhil. Statement II: Deepak lives on the floor immediately above Kiran; Kiran lives on an odd-numbered floor; Deepak lives on a floor somewhere above Lata; Zoya lives on an even-numbered floor.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 6

6 people are ranked from 1 (highest) to 6 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.

Statement I: Karan is ranked lower than Sanjay; Aditi and Meera are NOT ranked next to each other; Isha is 6th from the top; Exactly 3 people are ranked between Sanjay and Karan; Uma is ranked lower than Aditi. Statement II: Karan is ranked lower than Meera; Uma is ranked immediately above Meera; Sanjay and Isha are NOT ranked next to each other; Exactly 1 person is ranked between Sanjay and Uma; Exactly 1 person is ranked between Aditi and Meera.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 7

Each person lives on a different floor (1–4). Which statements are sufficient to fix EVERY person's floor?

Statement I: There is exactly 1 floor between Manish and Geeta; Geeta lives on the lowest floor; Imran lives on a floor somewhere above Manish; Manish lives on a floor somewhere above Rahul. Statement II: Geeta lives on an odd-numbered floor; Manish lives on the floor immediately above Rahul.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 8

4 people are ranked from 1 (highest) to 4 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.

Statement I: Sneha is 2nd from the bottom; Aditi is ranked LAST (lowest). Statement II: Exactly 1 person is ranked between Sanjay and Sneha; Harsh is 3rd from the bottom; Aditi is ranked lower than Sneha; Aditi is ranked lower than Harsh.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 9

Each person lives on a different floor (1–5). Which statements are sufficient to fix EVERY person's floor?

Statement I: Uma lives on a floor somewhere above Manish; Uma lives on an even-numbered floor; There is exactly 1 floor between Manish and Uma; Uma lives on a floor somewhere above Jaya; Manish lives on a floor somewhere above Tarun. Statement II: Divya lives on a floor somewhere above Manish; Jaya lives on a floor somewhere above Manish; Tarun lives on the lowest floor; There is exactly 1 floor between Jaya and Divya.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 10

5 people are ranked from 1 (highest) to 5 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.

Statement I: Exactly 1 person is ranked between Rahul and Isha; Esha is ranked lower than Lata; Lata is ranked higher than Uma; Exactly 1 person is ranked between Esha and Uma. Statement II: Rahul is ranked immediately above Uma; Uma is ranked lower than Esha; Lata is ranked FIRST (highest); Lata is ranked higher than Isha.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 11

Each person lives on a different floor (1–5). Which statements are sufficient to fix EVERY person's floor?

Statement I: There are exactly 3 floors between Geeta and Isha; Gauri lives on an odd-numbered floor; Esha lives on the floor immediately above Gauri. Statement II: Isha lives on the lowest floor; Geeta lives on the floor immediately above Esha; Geeta lives on the topmost floor; There is exactly 1 floor between Geeta and Gauri.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 12

6 people are ranked from 1 (highest) to 6 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.

Statement I: Aditi is 4th from the bottom; Exactly 2 people are ranked between Anjali and Zoya; Vikram and Zoya are NOT ranked next to each other; Aditi is ranked lower than Geeta. Statement II: Zoya is ranked higher than Anjali; Geeta is ranked lower than Zoya; Gauri is ranked lower than Anjali; Geeta is ranked immediately above Aditi; Vikram and Geeta are NOT ranked next to each other; Gauri is ranked lower than Aditi; Anjali is ranked immediately above Vikram.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 13

Each person lives on a different floor (1–4). Which statements are sufficient to fix EVERY person's floor?

Statement I: Tanvi lives on a floor somewhere above Vikram; Vikram lives on the floor immediately above Jaya. Statement II: There is exactly 1 floor between Tanvi and Vikram; Tanvi lives on the floor immediately above Anjali; Tanvi lives on a floor somewhere above Jaya.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 14

4 people are ranked from 1 (highest) to 4 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.

Statement I: Bhavna is ranked immediately below Harsh; Anjali is ranked higher than Bhavna; Harsh is ranked lower than Divya. Statement II: Exactly 1 person is ranked between Bhavna and Divya; Divya is ranked immediately below Anjali; Harsh is ranked immediately below Divya.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

QUESTION 15

Each person lives on a different floor (1–5). Which statements are sufficient to fix EVERY person's floor?

Statement I: Jaya lives on a floor somewhere above Lata; Lata lives on a floor somewhere above Esha; There is exactly 1 floor between Yash and Jaya; Esha lives on a floor somewhere above Sneha. Statement II: Yash lives on a floor somewhere above Sneha; There are exactly 2 floors between Lata and Sneha; Jaya lives on a floor somewhere above Yash.

A. Statement I alone is sufficient, but II alone is not.
B. Statement II alone is sufficient, but I alone is not.
C. Each statement ALONE is sufficient.
D. Both statements TOGETHER are sufficient, but neither alone.
E. Even both statements together are NOT sufficient.

Answers and worked solutions

Each walkthrough is the engine's own elimination order, step for step — not a reconstruction written after the fact.

SOLUTION 1

Answer: **Each statement ALONE is sufficient.**

1. Question: Each person lives on a different floor (1–4). Which statements are sufficient to fix EVERY person's floor?
2. Statement I (3 clues) alone ⇒ 1 arrangement.
3. Statement II (3 clues) alone ⇒ 1 arrangement.
4. Both together ⇒ 1 arrangement.
5. A statement is "sufficient" exactly when it leaves 1 arrangement. Answer: Each statement ALONE is sufficient.

SOLUTION 2

Answer: **Even both statements together are NOT sufficient.**

1. Question: 4 people are ranked from 1 (highest) to 4 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.
2. Statement I (3 clues) alone ⇒ 2 rankings.
3. Statement II (2 clues) alone ⇒ 4 rankings.
4. Both together ⇒ 2 rankings.
5. A statement is "sufficient" exactly when it leaves 1 ranking. Answer: Even both statements together are NOT sufficient.

SOLUTION 3

Answer: **Each statement ALONE is sufficient.**

1. Question: Each person lives on a different floor (1–5). Which statements are sufficient to fix EVERY person's floor?
2. Statement I (3 clues) alone ⇒ 1 arrangement.
3. Statement II (4 clues) alone ⇒ 1 arrangement.
4. Both together ⇒ 1 arrangement.
5. A statement is "sufficient" exactly when it leaves 1 arrangement. Answer: Each statement ALONE is sufficient.

SOLUTION 4

Answer: **Statement I alone is sufficient, but II alone is not.**

1. Question: 5 people are ranked from 1 (highest) to 5 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.
2. Statement I (3 clues) alone ⇒ 1 ranking.
3. Statement II (2 clues) alone ⇒ 6 rankings.
4. Both together ⇒ 1 ranking.
5. A statement is "sufficient" exactly when it leaves 1 ranking. Answer: Statement I alone is sufficient, but II alone is not.

SOLUTION 5

Answer: **Statement II alone is sufficient, but I alone is not.**

1. Question: Each person lives on a different floor (1–5). Which statements are sufficient to fix EVERY person's floor?
2. Statement I (3 clues) alone ⇒ 2 arrangements.
3. Statement II (4 clues) alone ⇒ 1 arrangement.
4. Both together ⇒ 1 arrangement.
5. A statement is "sufficient" exactly when it leaves 1 arrangement. Answer: Statement II alone is sufficient, but I alone is not.

SOLUTION 6

Answer: **Statement I alone is sufficient, but II alone is not.**

1. Question: 6 people are ranked from 1 (highest) to 6 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.
2. Statement I (5 clues) alone ⇒ 1 ranking.
3. Statement II (5 clues) alone ⇒ 7 rankings.
4. Both together ⇒ 1 ranking.
5. A statement is "sufficient" exactly when it leaves 1 ranking. Answer: Statement I alone is sufficient, but II alone is not.

SOLUTION 7

Answer: **Statement I alone is sufficient, but II alone is not.**

1. Question: Each person lives on a different floor (1–4). Which statements are sufficient to fix EVERY person's floor?
2. Statement I (4 clues) alone ⇒ 1 arrangement.
3. Statement II (2 clues) alone ⇒ 3 arrangements.
4. Both together ⇒ 1 arrangement.
5. A statement is "sufficient" exactly when it leaves 1 arrangement. Answer: Statement I alone is sufficient, but II alone is not.

SOLUTION 8

Answer: **Both statements TOGETHER are sufficient, but neither alone.**

1. Question: 4 people are ranked from 1 (highest) to 4 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.
2. Statement I (2 clues) alone ⇒ 2 rankings.
3. Statement II (4 clues) alone ⇒ 2 rankings.
4. Both together ⇒ 1 ranking.
5. A statement is "sufficient" exactly when it leaves 1 ranking. Answer: Both statements TOGETHER are sufficient, but neither alone.

SOLUTION 9

Answer: **Statement I alone is sufficient, but II alone is not.**

1. Question: Each person lives on a different floor (1–5). Which statements are sufficient to fix EVERY person's floor?
2. Statement I (5 clues) alone ⇒ 1 arrangement.
3. Statement II (4 clues) alone ⇒ 2 arrangements.
4. Both together ⇒ 1 arrangement.
5. A statement is "sufficient" exactly when it leaves 1 arrangement. Answer: Statement I alone is sufficient, but II alone is not.

SOLUTION 10

Answer: **Even both statements together are NOT sufficient.**

1. Question: 5 people are ranked from 1 (highest) to 5 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.
2. Statement I (4 clues) alone ⇒ 8 rankings.
3. Statement II (4 clues) alone ⇒ 3 rankings.
4. Both together ⇒ 2 rankings.
5. A statement is "sufficient" exactly when it leaves 1 ranking. Answer: Even both statements together are NOT sufficient.

SOLUTION 11

Answer: **Statement II alone is sufficient, but I alone is not.**

1. Question: Each person lives on a different floor (1–5). Which statements are sufficient to fix EVERY person's floor?
2. Statement I (3 clues) alone ⇒ 2 arrangements.
3. Statement II (4 clues) alone ⇒ 1 arrangement.
4. Both together ⇒ 1 arrangement.
5. A statement is "sufficient" exactly when it leaves 1 arrangement. Answer: Statement II alone is sufficient, but I alone is not.

SOLUTION 12

Answer: **Statement II alone is sufficient, but I alone is not.**

1. Question: 6 people are ranked from 1 (highest) to 6 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.
2. Statement I (4 clues) alone ⇒ 5 rankings.
3. Statement II (7 clues) alone ⇒ 1 ranking.
4. Both together ⇒ 1 ranking.
5. A statement is "sufficient" exactly when it leaves 1 ranking. Answer: Statement II alone is sufficient, but I alone is not.

SOLUTION 13

Answer: **Statement II alone is sufficient, but I alone is not.**

1. Question: Each person lives on a different floor (1–4). Which statements are sufficient to fix EVERY person's floor?
2. Statement I (2 clues) alone ⇒ 3 arrangements.
3. Statement II (3 clues) alone ⇒ 1 arrangement.
4. Both together ⇒ 1 arrangement.
5. A statement is "sufficient" exactly when it leaves 1 arrangement. Answer: Statement II alone is sufficient, but I alone is not.

SOLUTION 14

Answer: **Both statements TOGETHER are sufficient, but neither alone.**

1. Question: 4 people are ranked from 1 (highest) to 4 (lowest), no ties. Read Statements I and II, then decide which, if any, are sufficient to fix EVERY person's rank.
2. Statement I (3 clues) alone ⇒ 2 rankings.
3. Statement II (3 clues) alone ⇒ 2 rankings.
4. Both together ⇒ 1 ranking.
5. A statement is "sufficient" exactly when it leaves 1 ranking. Answer: Both statements TOGETHER are sufficient, but neither alone.

SOLUTION 15

Answer: **Statement I alone is sufficient, but II alone is not.**

1. Question: Each person lives on a different floor (1–5). Which statements are sufficient to fix EVERY person's floor?
2. Statement I (4 clues) alone ⇒ 1 arrangement.
3. Statement II (3 clues) alone ⇒ 4 arrangements.
4. Both together ⇒ 1 arrangement.
5. A statement is "sufficient" exactly when it leaves 1 arrangement. Answer: Statement I alone is sufficient, but II alone is not.

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