Deduce

Puzzle questions for bank exams, with worked answers

12 exam-shaped questions with full worked solutions.

For IBPS · SBI · RRB · SSC reasoning.

Free, share it forward. Every question in this set was generated and verified by the Deduce engine — the same one behind the free daily puzzle round at **deducepuzzles.com**.

The questions

Work them on paper first. Full solutions start after question 12 — the numbering matches.

QUESTION 1

4 people live in a 4-storey building, one person on each floor — floor 1 is the ground floor and floor 4 is the top.

1. Sanjay lives on a floor somewhere above Jaya.
2. There are exactly 2 floors between Jaya and Harsh.
3. Sneha lives on an even-numbered floor.

Can you work out who lives on each floor?

QUESTION 2

4 people sit in a row, all facing the same way — seat 1 is the far left, seat 4 the far right.

1. Varun sits somewhere to the left of Tanvi.
2. Neha sits immediately to the right of Varun.
3. Tanvi sits somewhere to the left of Geeta.

Can you work out who sits in each seat?

QUESTION 3

7 people sit around a round table, all facing the centre.

1. Pooja sits 2nd to the left of Meera (all facing the centre).
2. Imran sits 2nd to the right of Meera (all facing the centre).
3. Jaya sits 3rd to the left of Harsh (all facing the centre).
4. Jaya sits 2nd to the left of Kiran (all facing the centre).
5. Tarun sits 2nd to the left of Jaya (all facing the centre).

Can you work out who sits in each seat?

QUESTION 4

5 boxes are stacked one above another — position 1 is the bottom box and position 5 the top.

1. Exactly 2 boxes are kept between Box C and Box F.
2. Box H is kept immediately above Box F.
3. Box E is kept 5th from the bottom of the stack.
4. Box H is kept somewhere below Box D.

Can you work out which box sits at each position?

QUESTION 5

5 events are scheduled in 5 ordered time slots, one event per slot.

1. Nikhil's appointment is on a later day of the week than Meera's.
2. Priya's appointment is on a later day of the week than Divya's.
3. Nikhil's appointment is on the day immediately before Divya's.
4. Priya's appointment is on the day immediately before Sneha's.

Can you work out which event falls in each slot?

QUESTION 6

6 people sit in two parallel rows facing each other — one row faces north, the other faces south, and each person sits directly opposite exactly one other.

1. Isha does NOT sit at either extreme end of their row.
2. Exactly 1 person sits between Pooja and Farhan in the same row.
3. Lata sits immediately to the left of Pooja (both facing south).
4. Isha sits immediately to the left of Anjali (both facing north).
5. Priya faces north.

Can you work out who sits in each seat, in both rows?

QUESTION 7

4 people live in a 4-storey building, one person on each floor — floor 1 is the ground floor and floor 4 is the top.

1. Meera lives on a floor somewhere above Priya.
2. Meera lives on a floor somewhere above Lata.
3. Lata lives on an even-numbered floor.
4. Sneha lives on the lowest floor.

Can you work out who lives on each floor?

QUESTION 8

4 people sit in a row, all facing the same way — seat 1 is the far left, seat 4 the far right.

1. Anjali sits somewhere to the right of Pooja.
2. Exactly 1 person sits between Anjali and Arjun.
3. Anjali sits immediately to the right of Yash.

Can you work out who sits in each seat?

QUESTION 9

7 people sit around a round table, all facing the centre.

1. Manish sits next to Rohan.
2. Isha sits 3rd to the right of Rohan (all facing the centre).
3. Exactly 2 people sit between Pooja and Isha (the shorter way).
4. Chetan sits 2nd to the left of Rohan (all facing the centre).
5. Chetan sits next to Bhavna.
6. Karan sits 2nd to the right of Rohan (all facing the centre).

Can you work out who sits in each seat?

QUESTION 10

5 boxes are stacked one above another — position 1 is the bottom box and position 5 the top.

1. Box H is kept 3rd from the bottom of the stack.
2. Box A is kept immediately above Box F.
3. Box H is kept immediately below Box D.
4. Box D is kept somewhere below Box E.

Can you work out which box sits at each position?

QUESTION 11

5 events are scheduled in 5 ordered time slots, one event per slot.

1. There are exactly 2 days between Neha's and Imran's appointments.
2. Bhavna's appointment is on Thursday.
3. Zoya's appointment is on a later day of the week than Neha's.
4. There are exactly 3 days between Tanvi's and Imran's appointments.

Can you work out which event falls in each slot?

QUESTION 12

6 people sit in two parallel rows facing each other — one row faces north, the other faces south, and each person sits directly opposite exactly one other.

1. Sneha does NOT sit directly opposite Arjun.
2. Kiran sits immediately to the left of Sneha (both facing north).
3. Exactly 1 person sits between Pooja and Yash in the same row.
4. Yash sits immediately to the left of Arjun (both facing south).
5. Rahul faces north.

Can you work out who sits in each seat, in both rows?

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

1. Start: 24 possible arrangements of 4 people.
2. Clue 2 — "There are exactly 2 floors between Jaya and Harsh." narrows it to 4 possibilities. Board (top → bottom): _ · _ · _ · _
3. Clue 3 — "Sneha lives on an even-numbered floor." ⇒ Sanjay → floor 3, Sneha → floor 2 (2 possibilities left). Board (top → bottom): _ · Sanjay · Sneha · _
4. Clue 1 — "Sanjay lives on a floor somewhere above Jaya." ⇒ Jaya → floor 1, Harsh → floor 4 (1 possibility left). Board (top → bottom): Harsh · Sanjay · Sneha · Jaya
5. Exactly one arrangement survives every clue — that is the answer.

SOLUTION 2

1. Start: 24 possible left-to-right orders of 4 people.
2. Clue 2 — "Neha sits immediately to the right of Varun." narrows it to 6 possibilities. Board (left → right): _ · _ · _ · _
3. Clue 1 — "Varun sits somewhere to the left of Tanvi." narrows it to 3 possibilities. Board (left → right): _ · _ · _ · _
4. Clue 3 — "Tanvi sits somewhere to the left of Geeta." ⇒ Neha → seat 2, Varun → seat 1, Geeta → seat 4, Tanvi → seat 3 (1 possibility left). Board (left → right): Varun · Neha · Tanvi · Geeta
5. Exactly one order survives every clue: Varun, Neha, Tanvi, Geeta (left to right).

SOLUTION 3

1. Start: 720 distinct seatings (up to rotation) of 7 people around the table. Fix Harsh at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 1 — "Pooja sits 2nd to the left of Meera (all facing the centre)." narrows it to 120 possibilities. Table (clockwise from Harsh): Harsh · _ · _ · _ · _ · _ · _
3. Clue 2 — "Imran sits 2nd to the right of Meera (all facing the centre)." narrows it to 24 possibilities. Table (clockwise from Harsh): Harsh · _ · _ · _ · _ · _ · _
4. Clue 3 — "Jaya sits 3rd to the left of Harsh (all facing the centre)." ⇒ Jaya → seat 4 (4 possibilities left). Table (clockwise from Harsh): Harsh · _ · _ · Jaya · _ · _ · _
5. Clue 4 — "Jaya sits 2nd to the left of Kiran (all facing the centre)." ⇒ Pooja → seat 7, Tarun → seat 6, Imran → seat 3, Kiran → seat 2, Meera → seat 5 (1 possibility left). Table (clockwise from Harsh): Harsh · Kiran · Imran · Jaya · Meera · Tarun · Pooja
6. Exactly one seating (up to rotation) survives every clue: Harsh, Kiran, Imran, Jaya, Meera, Tarun, Pooja clockwise.

SOLUTION 4

1. Start: 120 possible stackings of 5 boxes.
2. Clue 3 — "Box E is kept 5th from the bottom of the stack." ⇒ Box E → position 5 (top) (24 possibilities left). Stack (top → bottom): Box E · _ · _ · _ · _
3. Clue 2 — "Box H is kept immediately above Box F." narrows it to 6 possibilities. Stack (top → bottom): Box E · _ · _ · _ · _
4. Clue 1 — "Exactly 2 boxes are kept between Box C and Box F." ⇒ Box H → position 2, Box C → position 4, Box F → position 1 (bottom), Box D → position 3 (1 possibility left). Stack (top → bottom): Box E · Box C · Box D · Box H · Box F
5. Exactly one stacking survives every clue — that is the answer.

SOLUTION 5

1. Start: 120 possible schedules of 5 people across Monday–Friday.
2. Clue 3 — "Nikhil's appointment is on the day immediately before Divya's." narrows it to 24 possibilities. Board (Monday → Friday): _ · _ · _ · _ · _
3. Clue 4 — "Priya's appointment is on the day immediately before Sneha's." narrows it to 6 possibilities. Board (Monday → Friday): _ · _ · _ · _ · _
4. Clue 1 — "Nikhil's appointment is on a later day of the week than Meera's." narrows it to 3 possibilities. Board (Monday → Friday): _ · _ · _ · _ · _
5. Clue 2 — "Priya's appointment is on a later day of the week than Divya's." ⇒ Meera → Monday, Divya → Wednesday, Nikhil → Tuesday, Sneha → Friday, Priya → Thursday (1 possibility left). Board (Monday → Friday): Meera · Nikhil · Divya · Priya · Sneha
6. Exactly one schedule survives every clue — that is the answer.

SOLUTION 6

1. Start: 720 ways to seat 6 people in two facing rows of 3.
2. Clue 5 — "Priya faces north." narrows it to 360 possibilities. Board — North (W→E): _ · _ · _ | South (W→E): _ · _ · _
3. Clue 2 — "Exactly 1 person sits between Pooja and Farhan in the same row." narrows it to 48 possibilities. Board — North (W→E): _ · _ · _ | South (W→E): _ · _ · _
4. Clue 3 — "Lata sits immediately to the left of Pooja (both facing south)." ⇒ Pooja → the south-facing row, column 1 (1 = west), Farhan → the south-facing row, column 3 (1 = west), Lata → the south-facing row, column 2 (1 = west) (6 possibilities left). Board — North (W→E): _ · _ · _ | South (W→E): Pooja · Lata · Farhan
5. Clue 4 — "Isha sits immediately to the left of Anjali (both facing north)." narrows it to 2 possibilities. Board — North (W→E): _ · _ · _ | South (W→E): Pooja · Lata · Farhan
6. Clue 1 — "Isha does NOT sit at either extreme end of their row." ⇒ Anjali → the north-facing row, column 3 (1 = west), Priya → the north-facing row, column 1 (1 = west), Isha → the north-facing row, column 2 (1 = west) (1 possibility left). Board — North (W→E): Priya · Isha · Anjali | South (W→E): Pooja · Lata · Farhan
7. Exactly one seating survives every clue — north row: Priya, Isha, Anjali; south row: Pooja, Lata, Farhan.

SOLUTION 7

1. Start: 24 possible arrangements of 4 people.
2. Clue 4 — "Sneha lives on the lowest floor." ⇒ Sneha → floor 1 (6 possibilities left). Board (top → bottom): _ · _ · _ · Sneha
3. Clue 3 — "Lata lives on an even-numbered floor." narrows it to 4 possibilities. Board (top → bottom): _ · _ · _ · Sneha
4. Clue 1 — "Meera lives on a floor somewhere above Priya." narrows it to 2 possibilities. Board (top → bottom): _ · _ · _ · Sneha
5. Clue 2 — "Meera lives on a floor somewhere above Lata." ⇒ Priya → floor 3, Lata → floor 2, Meera → floor 4 (1 possibility left). Board (top → bottom): Meera · Priya · Lata · Sneha
6. Exactly one arrangement survives every clue — that is the answer.

SOLUTION 8

1. Start: 24 possible left-to-right orders of 4 people.
2. Clue 3 — "Anjali sits immediately to the right of Yash." narrows it to 6 possibilities. Board (left → right): _ · _ · _ · _
3. Clue 2 — "Exactly 1 person sits between Anjali and Arjun." narrows it to 3 possibilities. Board (left → right): _ · _ · _ · _
4. Clue 1 — "Anjali sits somewhere to the right of Pooja." ⇒ Yash → seat 3, Anjali → seat 4, Arjun → seat 2, Pooja → seat 1 (1 possibility left). Board (left → right): Pooja · Arjun · Yash · Anjali
5. Exactly one order survives every clue: Pooja, Arjun, Yash, Anjali (left to right).

SOLUTION 9

1. Start: 720 distinct seatings (up to rotation) of 7 people around the table. Fix Bhavna at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 2 — "Isha sits 3rd to the right of Rohan (all facing the centre)." narrows it to 120 possibilities. Table (clockwise from Bhavna): Bhavna · _ · _ · _ · _ · _ · _
3. Clue 4 — "Chetan sits 2nd to the left of Rohan (all facing the centre)." narrows it to 24 possibilities. Table (clockwise from Bhavna): Bhavna · _ · _ · _ · _ · _ · _
4. Clue 6 — "Karan sits 2nd to the right of Rohan (all facing the centre)." narrows it to 6 possibilities. Table (clockwise from Bhavna): Bhavna · _ · _ · _ · _ · _ · _
5. Clue 3 — "Exactly 2 people sit between Pooja and Isha (the shorter way)." narrows it to 2 possibilities. Table (clockwise from Bhavna): Bhavna · _ · _ · _ · _ · _ · _
6. Clue 1 — "Manish sits next to Rohan." ⇒ Manish → seat 4, Pooja → seat 6, Chetan → seat 7, Isha → seat 2, Rohan → seat 5, Karan → seat 3 (1 possibility left). Table (clockwise from Bhavna): Bhavna · Isha · Karan · Manish · Rohan · Pooja · Chetan
7. Exactly one seating (up to rotation) survives every clue: Bhavna, Isha, Karan, Manish, Rohan, Pooja, Chetan clockwise.

SOLUTION 10

1. Start: 120 possible stackings of 5 boxes.
2. Clue 1 — "Box H is kept 3rd from the bottom of the stack." ⇒ Box H → position 3 (24 possibilities left). Stack (top → bottom): _ · _ · Box H · _ · _
3. Clue 2 — "Box A is kept immediately above Box F." narrows it to 4 possibilities. Stack (top → bottom): _ · _ · Box H · _ · _
4. Clue 3 — "Box H is kept immediately below Box D." ⇒ Box A → position 2, Box E → position 5 (top), Box D → position 4, Box F → position 1 (bottom) (1 possibility left). Stack (top → bottom): Box E · Box D · Box H · Box A · Box F
5. Exactly one stacking survives every clue — that is the answer.

SOLUTION 11

1. Start: 120 possible schedules of 5 people across Monday–Friday.
2. Clue 2 — "Bhavna's appointment is on Thursday." ⇒ Bhavna → Thursday (24 possibilities left). Board (Monday → Friday): _ · _ · _ · Bhavna · _
3. Clue 1 — "There are exactly 2 days between Neha's and Imran's appointments." narrows it to 4 possibilities. Board (Monday → Friday): _ · _ · _ · Bhavna · _
4. Clue 4 — "There are exactly 3 days between Tanvi's and Imran's appointments." ⇒ Tanvi → Monday, Zoya → Wednesday, Neha → Tuesday, Imran → Friday (1 possibility left). Board (Monday → Friday): Tanvi · Neha · Zoya · Bhavna · Imran
5. Exactly one schedule survives every clue — that is the answer.

SOLUTION 12

1. Start: 720 ways to seat 6 people in two facing rows of 3.
2. Clue 5 — "Rahul faces north." narrows it to 360 possibilities. Board — North (W→E): _ · _ · _ | South (W→E): _ · _ · _
3. Clue 2 — "Kiran sits immediately to the left of Sneha (both facing north)." narrows it to 48 possibilities. Board — North (W→E): _ · _ · _ | South (W→E): _ · _ · _
4. Clue 3 — "Exactly 1 person sits between Pooja and Yash in the same row." narrows it to 8 possibilities. Board — North (W→E): _ · _ · _ | South (W→E): _ · _ · _
5. Clue 4 — "Yash sits immediately to the left of Arjun (both facing south)." ⇒ Pooja → the south-facing row, column 1 (1 = west), Yash → the south-facing row, column 3 (1 = west), Arjun → the south-facing row, column 2 (1 = west) (2 possibilities left). Board — North (W→E): _ · _ · _ | South (W→E): Pooja · Arjun · Yash
6. Clue 1 — "Sneha does NOT sit directly opposite Arjun." ⇒ Rahul → the north-facing row, column 1 (1 = west), Sneha → the north-facing row, column 3 (1 = west), Kiran → the north-facing row, column 2 (1 = west) (1 possibility left). Board — North (W→E): Rahul · Kiran · Sneha | South (W→E): Pooja · Arjun · Yash
7. Exactly one seating survives every clue — north row: Rahul, Kiran, Sneha; south row: Pooja, Arjun, Yash.

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