DeducePuzzles

Direction sense questions with answers

15 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 DeducePuzzles 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 15 — the numbering matches.

QUESTION 1

How far and in which direction is Kavya from the starting point?

Kavya starts from a point and walks 12 m towards North. She then walks 10 m towards West. She then walks 12 m towards South.

A. 10 m West
B. 10 m South
C. 34 m West
D. 10 m North
E. 10 m East

QUESTION 2

How far and in which direction is Kavya from the starting point?

Kavya starts from a point and walks 11 m towards East. She then walks 9 m towards North. She then walks 11 m towards West.

A. 9 m North
B. 9 m West
C. 9 m South
D. 31 m North
E. 11 m North

QUESTION 3

How far and in which direction is Suresh from the starting point?

Suresh starts from a point and walks 14 m towards North. He then walks 13 m towards East. He then walks 3 m towards South. He then turns right and walks 15 m. He then turns left and walks 9 m.

A. 2√2 m North
B. 4 m North-West
C. 2 m North-West
D. 2√2 m South-East
E. 2√2 m North-West

QUESTION 4

How far (in metres) is Kavya from the starting point?

Kavya starts from a point and walks 4 m towards North. She then walks 11 m towards East. She then walks 8 m towards North. She then turns left and walks 6 m.

A. 12 m
B. 11 m
C. 13 m
D. 5 m
E. 17 m

QUESTION 5

How far (in metres) is Deepak from the starting point?

Deepak starts from a point and walks 3 m towards East. He then turns right and walks 9 m. He then walks 3 m towards West. He then walks 4 m towards North. He then walks 12 m towards West.

A. 5 m
B. 11 m
C. 15 m
D. 12 m
E. 13 m

QUESTION 6

In which direction is Priya facing now?

Priya starts from a point and walks 15 m towards South. She then turns right and walks 11 m. She then turns right and walks 10 m. She then turns right and walks 10 m. She then walks 8 m towards North. She then turns right and walks 9 m.

A. South
B. East
C. Cannot be determined
D. North
E. West

QUESTION 7

How far and in which direction is Karan from the starting point?

Karan starts from a point and walks 10 m towards West. He then walks 5 m towards North. He then walks 10 m towards East.

A. 7 m North
B. 25 m North
C. 5 m North
D. 3 m North
E. 5 m East

QUESTION 8

How far and in which direction is Manish from the starting point?

Manish starts from a point and walks 4 m towards West. He then walks 13 m towards North. He then walks 4 m towards East.

A. 13 m North
B. 13 m West
C. 11 m North
D. 13 m East
E. 21 m North

QUESTION 9

In which direction is Rohan facing now?

Rohan starts from a point and walks 7 m towards East. He then turns right and walks 14 m. He then turns right and walks 15 m. He then walks 2 m towards North. He then turns left and walks 3 m.

A. North
B. East
C. South
D. Cannot be determined
E. West

QUESTION 10

In which direction is Kavya facing now?

Kavya starts from a point and walks 7 m towards East. She then walks 8 m towards North. She then turns left and walks 4 m. She then walks 5 m towards South. She then turns right and walks 6 m.

A. Cannot be determined
B. South
C. West
D. North
E. East

QUESTION 11

How far and in which direction is Ritu from the starting point?

Ritu starts from a point and walks 6 m towards North. She then turns left and walks 4 m. She then walks 4 m towards South. She then walks 2 m towards East.

A. 4 m North-West
B. 2√2 m North-West
C. 2√2 m North
D. 2√2 m South-East
E. 4√2 m North-West

QUESTION 12

In which direction is Deepak facing now?

Deepak starts from a point and walks 2 m towards North. He then turns right and walks 12 m. He then turns left and walks 6 m. He then turns right and walks 11 m. He then turns right and walks 14 m. He then turns right and walks 11 m.

A. South
B. West
C. Cannot be determined
D. North
E. East

QUESTION 13

How far and in which direction is Rohan from the starting point?

Rohan starts from a point and walks 14 m towards East. He then walks 13 m towards South. He then walks 14 m towards West.

A. 41 m South
B. 11 m South
C. 15 m South
D. 13 m South
E. 13 m East

QUESTION 14

How far and in which direction is Divya from the starting point?

Divya starts from a point and walks 2 m towards West. She then walks 7 m towards South. She then walks 2 m towards East.

A. 7 m East
B. 9 m South
C. 7 m South
D. 7 m West
E. 11 m South

QUESTION 15

How far and in which direction is Rohan from the starting point?

Rohan starts from a point and walks 11 m towards West. He then walks 10 m towards South. He then turns left and walks 13 m. He then turns left and walks 6 m. He then turns right and walks 2 m.

A. $6\sqrt{2}$ m South-East
B. 4 m South-East
C. $4\sqrt{2}$ m South-East
D. $4\sqrt{2}$ m North-West
E. $4\sqrt{2}$ m South

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: **10 m West**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 12 m towards North → (0, 12).
3. Step 2: walks 10 m towards West → (-10, 12).
4. Step 3: walks 12 m towards South → (-10, 0).
5. Net position (-10, 0): the other moves cancel, leaving 10 m West of the start.
6. So Kavya is 10 m West of the starting point.

SOLUTION 2

Answer: **9 m North**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 11 m towards East → (11, 0).
3. Step 2: walks 9 m towards North → (11, 9).
4. Step 3: walks 11 m towards West → (0, 9).
5. Net position (0, 9): the other moves cancel, leaving 9 m North of the start.
6. So Kavya is 9 m North of the starting point.

SOLUTION 3

Answer: **2√2 m North-West**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 14 m towards North → (0, 14).
3. Step 2: walks 13 m towards East → (13, 14).
4. Step 3: walks 3 m towards South → (13, 11).
5. Step 4: turns right (now facing West) and walks 15 m → (-2, 11).
6. Step 5: turns left (now facing South) and walks 9 m → (-2, 2).
7. Net position (-2, 2) = 2 m West and 2 m North — equal components point exactly North-West, and the distance is 2√2 m.
8. So Suresh is 2√2 m North-West of the starting point.

SOLUTION 4

Answer: **13 m**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 4 m towards North → (0, 4).
3. Step 2: walks 11 m towards East → (11, 4).
4. Step 3: walks 8 m towards North → (11, 12).
5. Step 4: turns left (now facing West) and walks 6 m → (5, 12).
6. Net position (5, 12) = 5 m East and 12 m North; distance from start = $\sqrt{(5^2 + 12^2)} = \sqrt{169} = 13$ m.
7. So Kavya is 13 m from the starting point.

SOLUTION 5

Answer: **13 m**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 3 m towards East → (3, 0).
3. Step 2: turns right (now facing South) and walks 9 m → (3, -9).
4. Step 3: walks 3 m towards West → (0, -9).
5. Step 4: walks 4 m towards North → (0, -5).
6. Step 5: walks 12 m towards West → (-12, -5).
7. Net position (-12, -5) = 12 m West and 5 m South; distance from start = $\sqrt{(12^2 + 5^2)} = \sqrt{169} = 13$ m.
8. So Deepak is 13 m from the starting point.

SOLUTION 6

Answer: **East**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 15 m towards South → (0, -15).
3. Step 2: turns right (now facing West) and walks 11 m → (-11, -15).
4. Step 3: turns right (now facing North) and walks 10 m → (-11, -5).
5. Step 4: turns right (now facing East) and walks 10 m → (-1, -5).
6. Step 5: walks 8 m towards North → (-1, 3).
7. Step 6: turns right (now facing East) and walks 9 m → (8, 3).
8. She faces the direction she last walked, and every turn is tracked above.
9. So Priya is now facing East.

SOLUTION 7

Answer: **5 m North**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 10 m towards West → (-10, 0).
3. Step 2: walks 5 m towards North → (-10, 5).
4. Step 3: walks 10 m towards East → (0, 5).
5. Net position (0, 5): the other moves cancel, leaving 5 m North of the start.
6. So Karan is 5 m North of the starting point.

SOLUTION 8

Answer: **13 m North**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 4 m towards West → (-4, 0).
3. Step 2: walks 13 m towards North → (-4, 13).
4. Step 3: walks 4 m towards East → (0, 13).
5. Net position (0, 13): the other moves cancel, leaving 13 m North of the start.
6. So Manish is 13 m North of the starting point.

SOLUTION 9

Answer: **West**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 7 m towards East → (7, 0).
3. Step 2: turns right (now facing South) and walks 14 m → (7, -14).
4. Step 3: turns right (now facing West) and walks 15 m → (-8, -14).
5. Step 4: walks 2 m towards North → (-8, -12).
6. Step 5: turns left (now facing West) and walks 3 m → (-11, -12).
7. He faces the direction he last walked, and every turn is tracked above.
8. So Rohan is now facing West.

SOLUTION 10

Answer: **West**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 7 m towards East → (7, 0).
3. Step 2: walks 8 m towards North → (7, 8).
4. Step 3: turns left (now facing West) and walks 4 m → (3, 8).
5. Step 4: walks 5 m towards South → (3, 3).
6. Step 5: turns right (now facing West) and walks 6 m → (-3, 3).
7. She faces the direction she last walked, and every turn is tracked above.
8. So Kavya is now facing West.

SOLUTION 11

Answer: **2√2 m North-West**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 6 m towards North → (0, 6).
3. Step 2: turns left (now facing West) and walks 4 m → (-4, 6).
4. Step 3: walks 4 m towards South → (-4, 2).
5. Step 4: walks 2 m towards East → (-2, 2).
6. Net position (-2, 2) = 2 m West and 2 m North — equal components point exactly North-West, and the distance is 2√2 m.
7. So Ritu is 2√2 m North-West of the starting point.

SOLUTION 12

Answer: **West**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 2 m towards North → (0, 2).
3. Step 2: turns right (now facing East) and walks 12 m → (12, 2).
4. Step 3: turns left (now facing North) and walks 6 m → (12, 8).
5. Step 4: turns right (now facing East) and walks 11 m → (23, 8).
6. Step 5: turns right (now facing South) and walks 14 m → (23, -6).
7. Step 6: turns right (now facing West) and walks 11 m → (12, -6).
8. He faces the direction he last walked, and every turn is tracked above.
9. So Deepak is now facing West.

SOLUTION 13

Answer: **13 m South**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 14 m towards East → (14, 0).
3. Step 2: walks 13 m towards South → (14, -13).
4. Step 3: walks 14 m towards West → (0, -13).
5. Net position (0, -13): the other moves cancel, leaving 13 m South of the start.
6. So Rohan is 13 m South of the starting point.

SOLUTION 14

Answer: **7 m South**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 2 m towards West → (-2, 0).
3. Step 2: walks 7 m towards South → (-2, -7).
4. Step 3: walks 2 m towards East → (0, -7).
5. Net position (0, -7): the other moves cancel, leaving 7 m South of the start.
6. So Divya is 7 m South of the starting point.

SOLUTION 15

Answer: **4√2 m South-East**

1. Take the start as (0, 0), with East as +x and North as +y.
2. Step 1: walks 11 m towards West → (-11, 0).
3. Step 2: walks 10 m towards South → (-11, -10).
4. Step 3: turns left (now facing East) and walks 13 m → (2, -10).
5. Step 4: turns left (now facing North) and walks 6 m → (2, -4).
6. Step 5: turns right (now facing East) and walks 2 m → (4, -4).
7. Net position (4, -4) = 4 m East and 4 m South — equal components point exactly South-East, and the distance is 4√2 m.
8. So Rohan is 4√2 m South-East of the starting point.

One round a day beats one set a month.

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