

**MAH-CET 2024 FOR
BCA BBA BBM BMS**

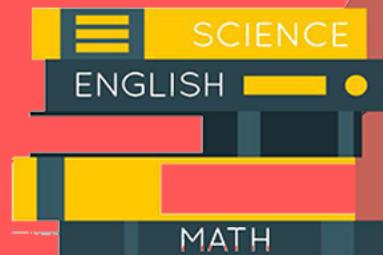


**CRASH
COURSE**

DAY - 10

REASONING

**DIRECTION
& DISTANCE**





**TOTAL
QUESTIONS
TODAY:**

12

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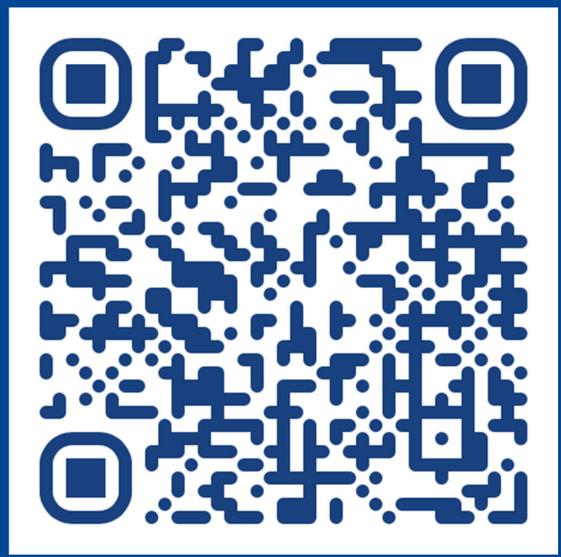


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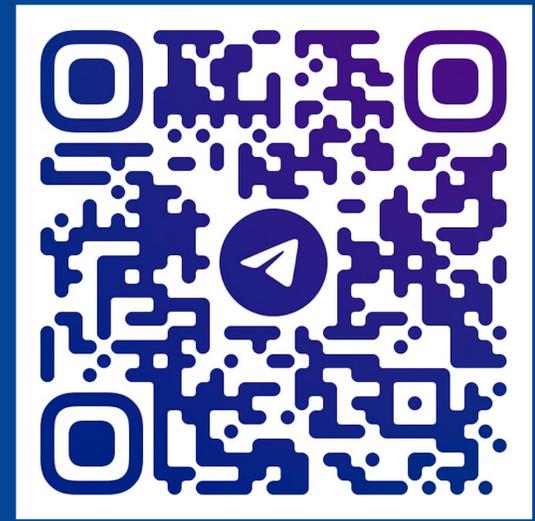
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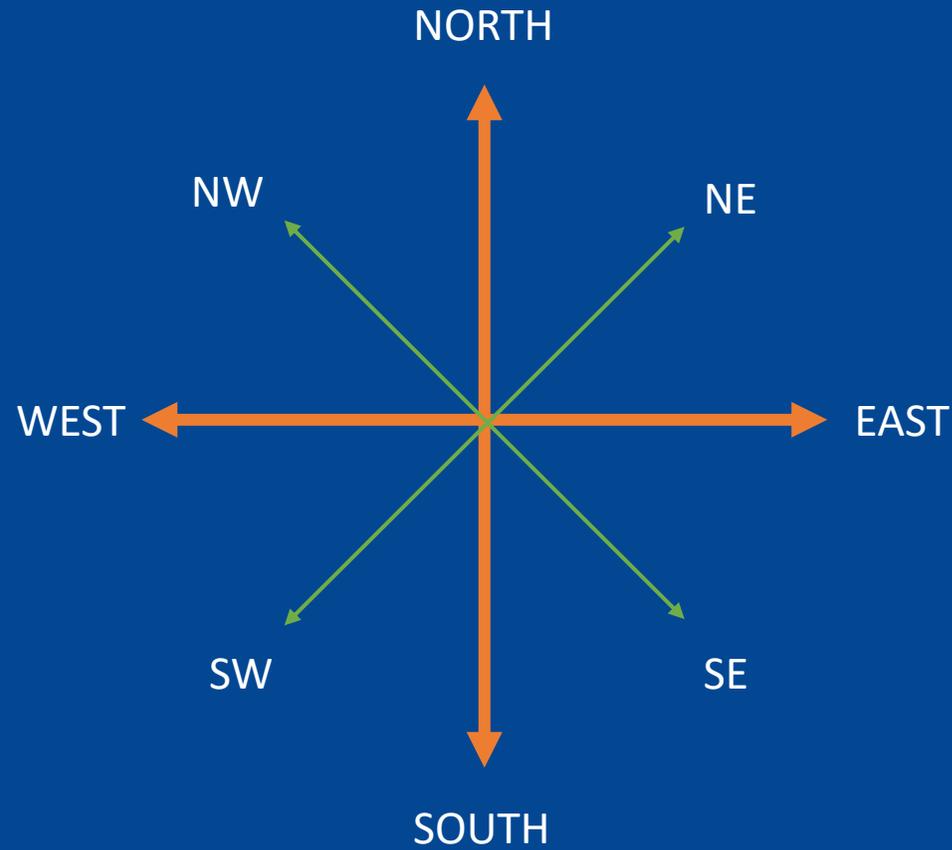


FOR MAH-CET 2024 FOR BBA/BMS/BBM/BCA





Directions





Direction Sense

Questions based on directions to check the ability of directional understanding.



Types of Questions

1. Single Question
2. Paragraph based Question Set



REMEMBER:

Right Turn = Clockwise

Left Turn = Anti-clockwise



Shortest Distance Question

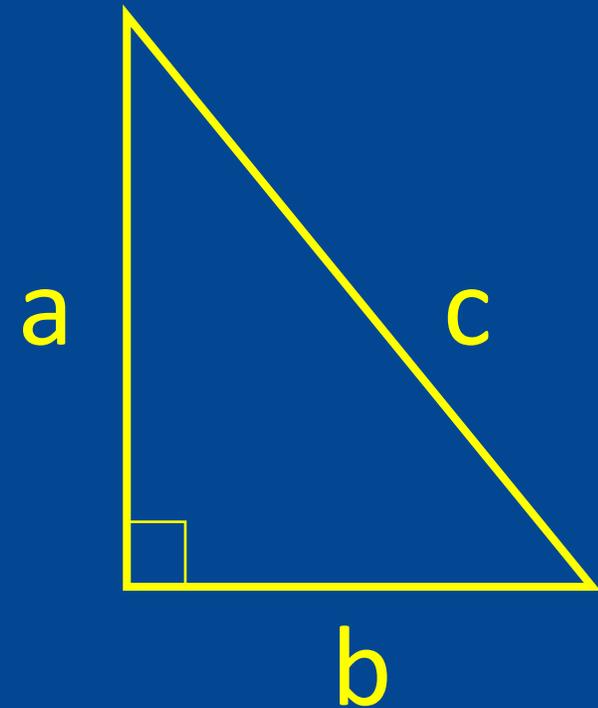
Example: Ram started walking from his home 4km towards South, then he turned left and walked 3km. If he wants to return home and takes a shortest path, then how much distance will he have to walk?



Formula for shortest path Pythagoras Theorem

Hypotenuse² = (One side)² + (Other Side)²

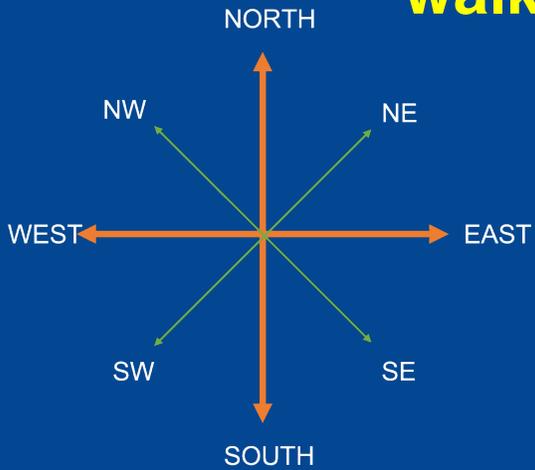
$$c^2 = a^2 + b^2$$





Shortest Distance Question

Example: Ram started walking from his home 4km towards South, then he turned left and walked 3km. If he wants to return home and takes a shortest path, then how much distance will he have to walk?





1. Shyam started from his house towards West.

After 30 m, he turned to his right and walked 15 m, then he turned to his left and walked 15 m.

After that he turned to his left and walked 40 m. Now he turned to his left and walked 7 m.

Finally, he turned to his left. In which direction is Shyam walking now?

- A. East**
- B. West**
- C. North**
- D. South**
- E. Can't be determined**



2. Raghu is facing towards East, he turned to his right and walked 40 m, then he turned right 30 m, after that he walked 20 m to his right then he turned 30 m to his right again. Finally he stopped walking. How far and in which direction is Raghu from his starting point?

- A. 120 m East
- B. 30 m East
- C. 20 m West
- D. 20 m South
- E. 40 m West



3. For a competitive exam only 4 members attended. The examiner made them to sit in such a way that P sits West of Q and South of R, who sits East of S. Determine the direction of S from Q.

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



4. A man walks 2 Km towards West, then he turns 3 Km of to his left. From there he walks 10 Km to his right. Finally he walks 2 Km to his left and stops there. How far he is from the starting point?

- A. 17 Km
- B. 18 Km
- C. 10 Km
- D. 20 Km
- E. none



5. If A is to the south of B and C is to the east of B, in what direction is A with respect to C?.

- (a) North-east
- (b) North-west
- (c) South-east
- (d) South-west
- (e) None of these



6. A is 40 m South-west of B. C is 40 m South-east of B.

Then, C is in which direction of A?

- (a) East**
- (b) West**
- (c) North-east**
- (d) South**
- (e) None of these**



7. Aditya went 15 kms to the west from his house, then turned left and walked 20 kms. He then turned East and walked 25 kms and finally turning left covered 20 kms.

How far was he from his house?

- (a) 5 kms
- (b) 10 kms
- (c) 40 kms
- (d) 80 kms
- (e) None of these



8. You go North, turn right, then right again and then go to the left. In which direction are you now?

- (a) North**
- (b) South**
- (c) East**
- (d) West**
- (e) None of these**



9. Raman walked 2km West from his office and then turned South covering 4km. Finally he walked 3km towards East and again moved 1 km West. How far is Raman from his initial position.

- A. 4km
- B. 8km
- C. 10km
- D. 7km
- E. None of these



DIRECTION (10-12) Solve the following and answer the questions.

Seven villages A, B, C, D, E, F and G are situated as follow

E is 2 km to the West of B.

F is 2 km to the North of A.

C is 1 km to the West of A

D is 2 km to the South of G.

G is 2 km to the East of C.

D is exactly in the middle of B and E.



Seven villages A, B, C, D, E, F and G are situated as follow

E is 2 km to the West of B. F is 2 km to the North of A. C is 1 km to the West of A. D is 2 km to the South of G. G is 2 km to the East of C. D is exactly in the middle of B and E.

10. Which two villages are the farther from one another?

- (a) F and E**
- (b) G and E**
- (c) D and C**
- (d) F and B**
- (e) None of these**



Seven villages A, B, C, D, E, F and G are situated as follow

E is 2 km to the West of B. F is 2 km to the North of A. C is 1 km to the West of A. D is 2 km to the South of G. G is 2 km to the East of C. D is exactly in the middle of B and E.

11. How far is E and F (in km)?

- A. 5
- B. $\sqrt{26}$
- C. 4
- D. $\sqrt{20}$
- E. None of these



Seven villages A, B, C, D, E, F and G are situated as follow

E is 2 km to the West of B. F is 2 km to the North of A. C is 1 km to the West of A. D is 2 km to the South of G. G is 2 km to the East of C. D is exactly in the middle of B and E.

12. A is in the middle of

- (a) E and G**
- (b) G and C**
- (c) E and C**
- (d) F and G**
- (e) None of the above**

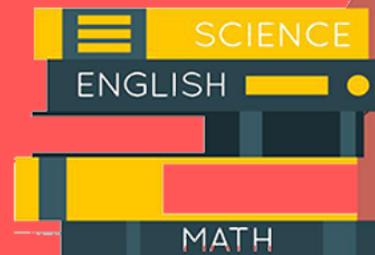
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**CRASH
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**DAY - 11
MATHS**

PROFIT & LOSS





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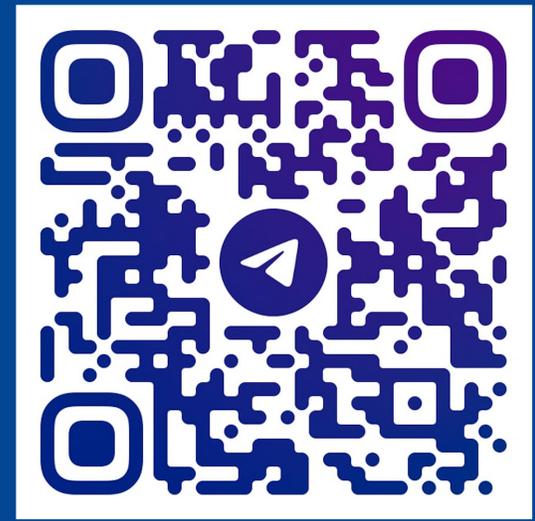
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