





Mahendra's



RBI GRADE B & ASSISTANT

Reasoning Ability

DIRECTION AND DISTANCE
MOST EXPECTED QUESTIONS



LIVE

10:30 AM



UPCOMING ONLINE BATCHES

December 2021

01 Dec 2021

08:00 AM to 10:00 AM

LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

05:30 PM to 07:30 PM

LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

01:00 PM to 03:00 PM

LIVE PREMIUM SILVER CARD
(SSC CGL & CHSL)

07:30 PM to 09:30 PM

SSC CGL MAINS LIVE COURSE
(SSC CGL)

BILINGUAL

08 Dec 2021

10:30 AM to 12:30 PM

LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

03:00 PM to 05:00 PM

LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

08:00 AM to 10:00 AM

LIVE PREMIUM SILVER CARD
(SSC CGL & CHSL)

08:00 AM to 10:00 AM

CCC NIELIT LIVE COURSE

BILINGUAL

15 Dec 2021

01:00 PM to 03:00 PM

LIVE PREMIUM
GREEN CARD
(BANK-PO & CLERK)

10:30 AM to 12:30 PM

LIVE PREMIUM
SILVER CARD
(SSC CGL & CHSL)

BILINGUAL

22 Dec 2021

08:00 AM to 10:00 AM

LIVE PREMIUM
GREEN CARD
(BANK-PO & CLERK)

07:30 PM to 09:30 PM

LIVE PREMIUM
SILVER CARD
(SSC CGL & CHSL)

BILINGUAL

29 Dec 2021

10:30 AM to 12:30 PM

LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

07:30 PM to 09:30 PM

LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

03:00 PM to 05:00 PM

LIVE PREMIUM SILVER CARD
(SSC CGL & CHSL)

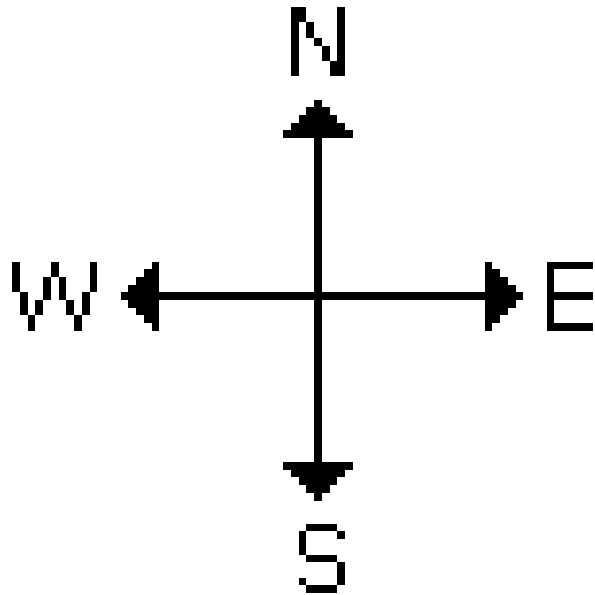
BILINGUAL





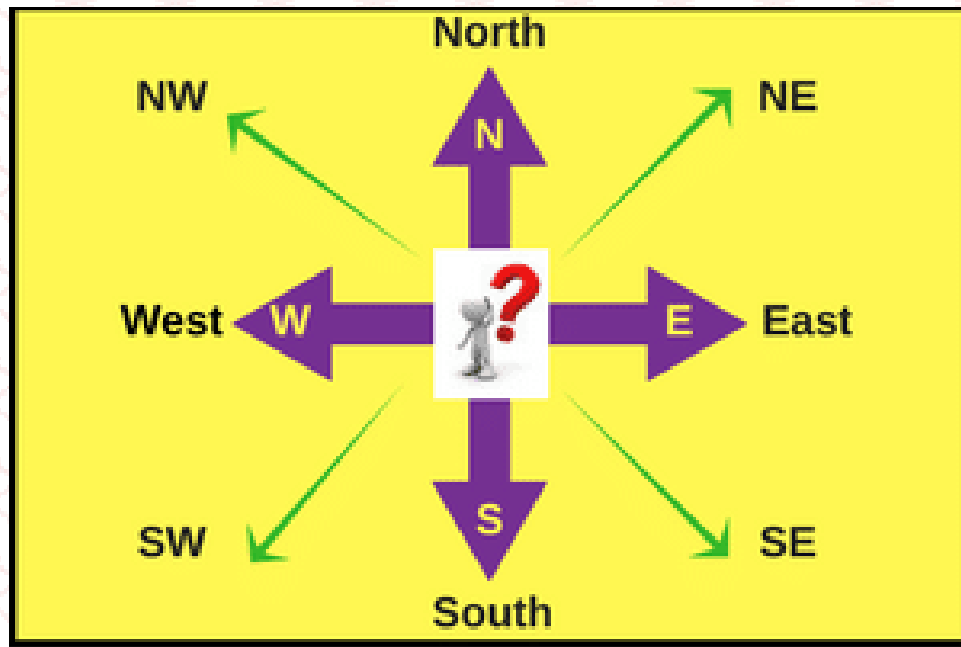
Introduction:

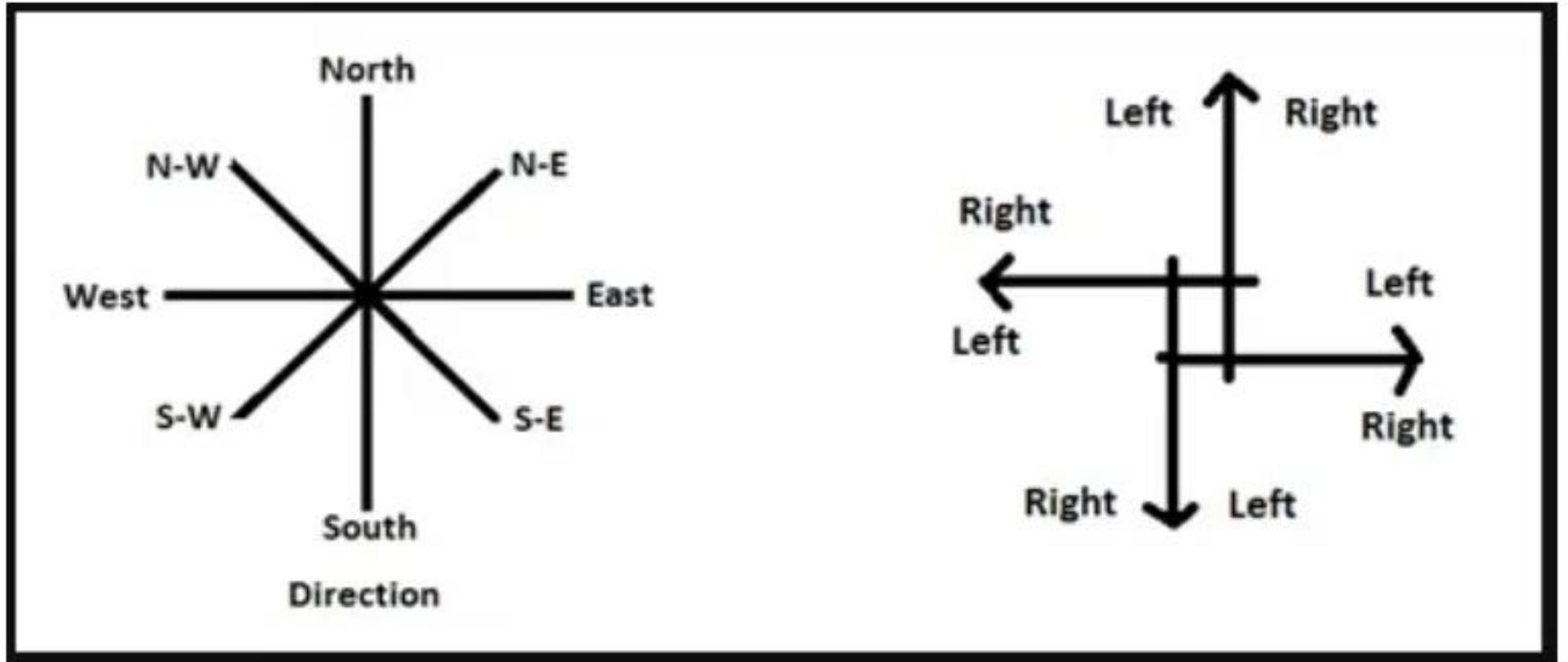
There are four main directions -
East, West, North and South as shown below:





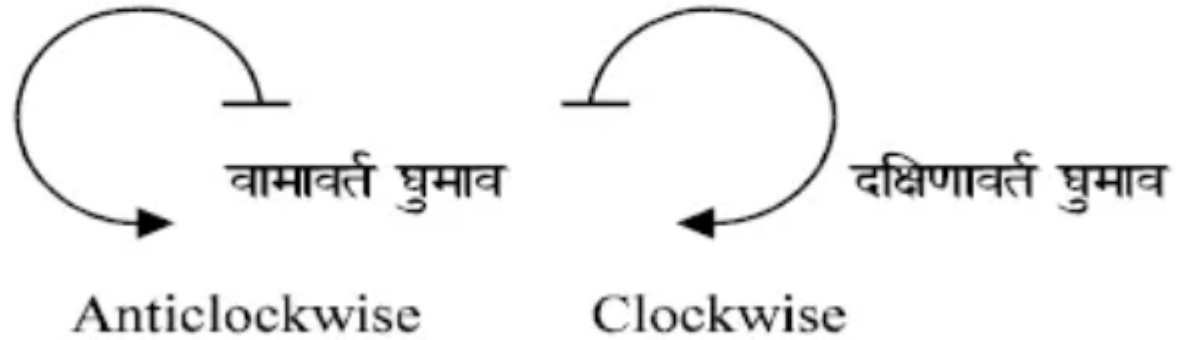
There are four cardinal directions - **North-East (N-E)**, **North-West (N-W)**, **South-East (S-E)**, and **South-West (S-W)** as shown below:







Anti-clock wise – Left hand side direction



छह व्यक्ति P, Q, R, S, T, और U का जन्म एक ही महीने और छह अलग-अलग वर्ष की तारीख में हुआ है। 1978, 1982, 1990, 1995, 2000 और 2006 लेकिन जरूरी नहीं इसी क्रम में हो। (सभी आयु की गणना आधार वर्ष 2021 के आधार पर की जाएगी)। सभी व्यक्ति आपस में जुड़े हुए हैं। T उस व्यक्ति का पिता है जिसकी आयु 15 वर्ष है। T की आयु और P की आयु के बीच का अंतर सबसे कम है। P, U की माता है, जो एक पुरुष है। Q, P की बहन से विवाहित है, जिसकी आयु 39 वर्ष है। S, R की सिस्टर-इन-लाॅ है। S, R से बड़ा है लेकिन Q से छोटा है। परिवार में केवल दो महिलाएं हैं। U परिवार का सबसे छोटा सदस्य है।

Six persons P, Q, R, S, T, and U are born in same month and date of six different year viz. 1978, 1982, 1990, 1995, 2000, and 2006 but not necessarily in the same order. (All the ages will be calculated on base year 2021). All persons are related to each other. T is the father of the one whose age is 15 years. The difference between T's age and P's age is the lowest. P is the mother of U, who is a male. Q is married to the sister of P, whose age is 39 years. S is the sister-in-law of R. S is older than R but younger than Q. There are only two females in the family. U is the youngest family member.



Six persons P, Q, R, S, T, and U are born in same month and date of six different year viz. 1978, 1982, 1990, 1995, 2000, and 2006 but not necessarily in the same order. (All the ages will be calculated on base year 2021). All persons are related to each other. T is the father of the one whose age is 15 years. The difference between T's age and P's age is the lowest. P is the mother of U, who is a male. Q is married to the sister of P, whose age is 39 years. S is the sister-in-law of R. S is older than R but younger than Q. There are only two females in the family. U is the youngest family member.

Years	Age	Persons
1978	43	T
1982	39	P
1990	31	Q
1995	26	S
2000	21	R
2006	15	U

How is S related to the one whose age is 15 years?

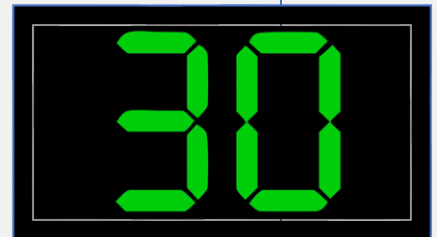
- (a) Paternal Uncle
- (b) Maternal Uncle
- (c) Maternal Aunt
- (d) Paternal Aunt
- (e) None of these

Who was born in 1990?

- (a) S
- (b) R
- (c) Q
- (d) T
- (e) Either (b) or (c)

What is the sum of the ages of S and R?

- (a) 52 years
- (b) 57 years
- (c) 47 years
- (d) 60 years
- (e) None of these

30

Years	Age	Persons
1978	43	T
1982	39	P
1990	31	Q
1995	26	S
2000	21	R
2006	15	U

Which of the following information is correct?

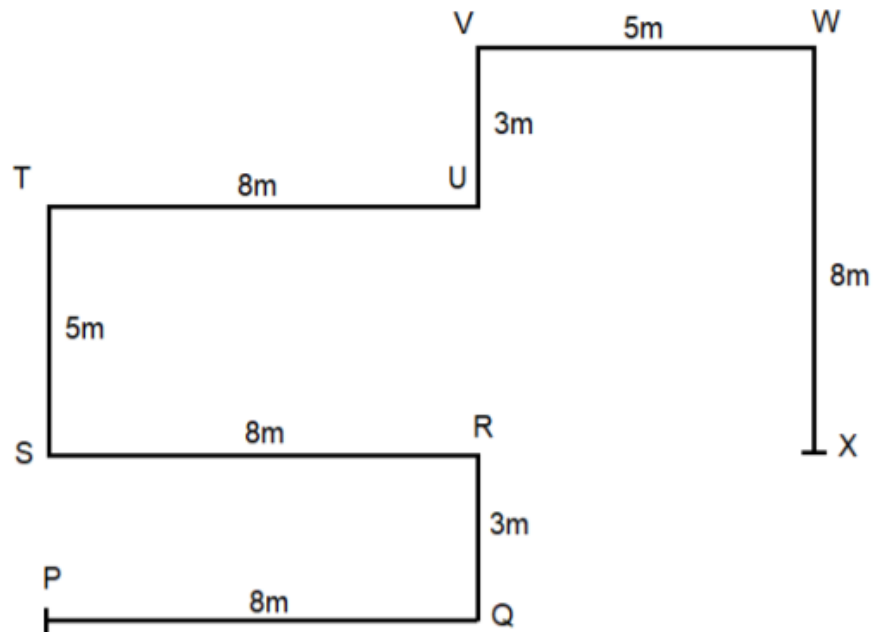
- (a) R was born in 1995
- (b) R is the brother of Q
- (C) Both (a) and (b)
- (d) U is the son of P and T
- (e) Both (b) and (d)

Four of the following five are alike in a certain way based on a group, which of the following does not belong to that group?

- (a) T- 1978
- (b) P -1982
- (C) Q - 1990
- (d) R- 1995
- (e) U- 2006

Jatin started walking from point P in east direction. After walking 8m he turns left from point Q. He then walks 3m and turns left from point R. He then walks for 8m and then turns right from point S. He then walks for 5m till point T and then turns right and walks for 8m till point U. He then turns left and walks for 3m and then turns right from point V and walks for 5m till point W. He then turns right from point W and walks for 8m till point X

जतिन बिंदु P से पूर्व दिशा में चलना शुरू करता है। 8मी चलने के बाद वह बिंदु Q से बाएं मुड़ता है। वह फिर 3मी चलता है और बिंदु R से बाएं मुड़ता है। फिर वह 8मी चलता है और फिर बिंदु S से दाएं मुड़ता है। फिर वह बिंदु T तक 5मी चलता है और फिर दाएं मुड़ता है और 8मी चलता है बिंदु U तक। वह फिर बाएं मुड़ता है और 3 मीटर चलता है और फिर बिंदु V से दाएं मुड़ता है और बिंदु W तक 5 मीटर चलता है। फिर वह बिंदु W से दाएं मुड़ता है और बिंदु X तक 8 मीटर चलता है



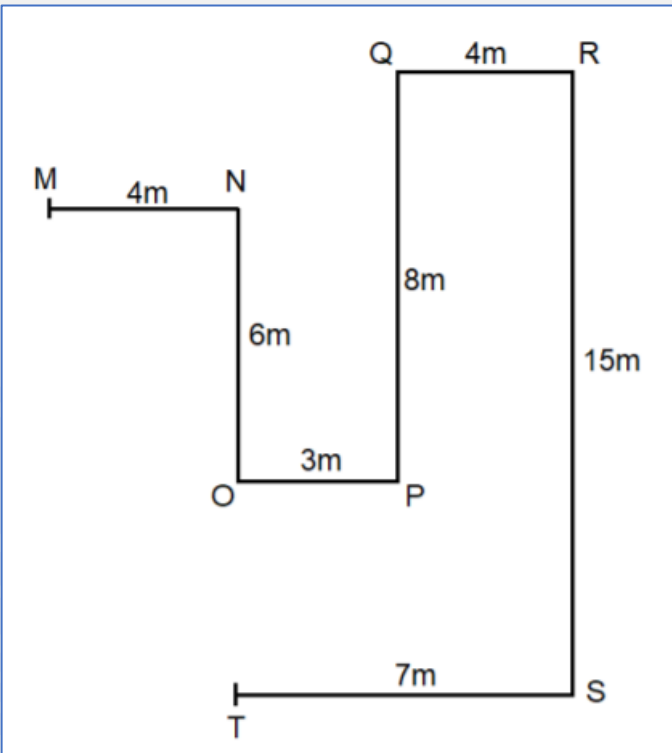
What is the shortest distance between point S and point X?

a. 12m b. 13m c. 17m d. 20m e. None of these

What is the total distance between V and Q? a. 12m b. 13m c. 11m d. 15m e. None of these

Nick started walking in east direction from point M. After walking 4m till point N, he turns right and walks for 6m till point O and then turns left and walks for 3m till point P. He then turns left and walks for 8m till point Q. He then turns right and walks for 4m till point R. He then turns right and walks for 15m till point S. He then turns right and walks for 7m till point T.

निक बिंदु M से पूर्व दिशा में चलना शुरू करता है। बिंदु N तक 4 मीटर चलने के बाद, वह दाएं मुड़ता है और बिंदु O तक 6 मीटर चलता है और फिर बाएं मुड़ता है और बिंदु P तक 3 मीटर चलता है। फिर वह बाएं मुड़ता है और बिंदु Q तक 8 मीटर चलता है। फिर वह दायें मुड़ता है और बिंदु R तक 4मी चलता है। फिर वह दायें मुड़ता है और बिंदु S तक 15मी चलता है। फिर वह दायें मुड़ता है और बिंदु T तक 7मी चलता है।



In which direction is point O with respect to point T?

- a. South b. East c. North-East d. West e. None of these

What is the total distance that Nick covered?

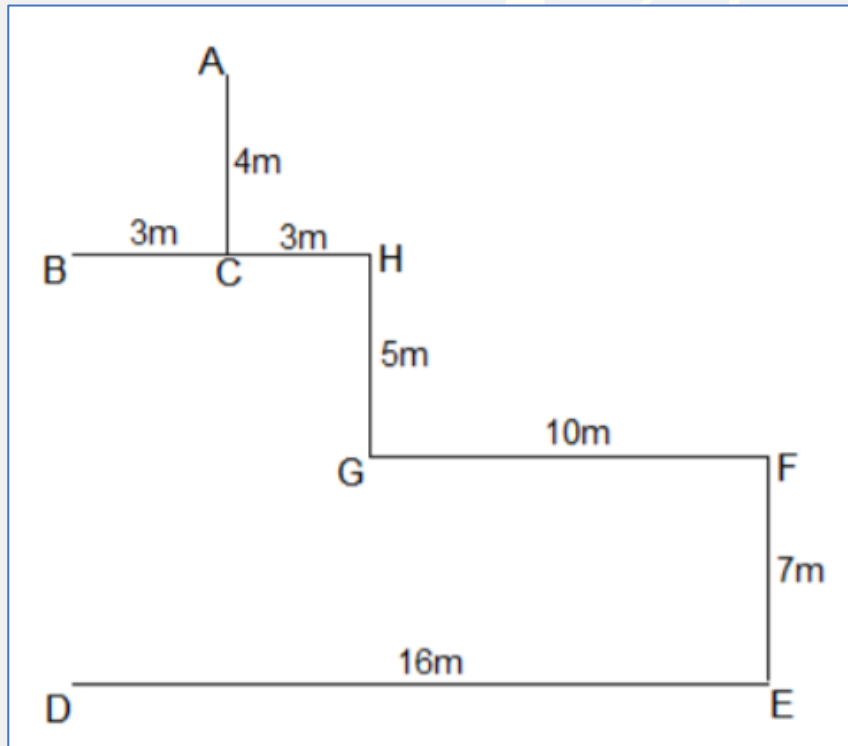
- a. 45m b. 47m c. 50m d. 52m e. None of these

In which direction R with respect with M?

- a. South b. East c. North-East d. West e. None of these

Point A is 4m north of point C. Point F is 10m east of point G, which is 5m south of point H. Point B is north of point D, which is west of point E. Point F is 7m north of point E. Point C is the middle point of point B and point H. Point B is 6m to the west of H.

बिंदु A, बिंदु C के 4मी उत्तर में है। बिंदु F, बिंदु G के 10मी पूर्व में है, जो बिंदु H के 5मी दक्षिण में है। बिंदु B, बिंदु D के उत्तर में है, जो बिंदु E के पश्चिम में है। बिंदु F, बिंदु E के 7मी उत्तर में है। बिंदु C, बिंदु B और बिंदु H का मध्य बिंदु है। बिंदु B, H के पश्चिम में 6मी की दूरी पर है।



What is the shortest distance between point B and point E?
a. 22m b. 20m c. 25m d. 28m e. None of these

What is the direction of point G with respect to point D?
a. North east b. North west c. South west d. North e. None of these

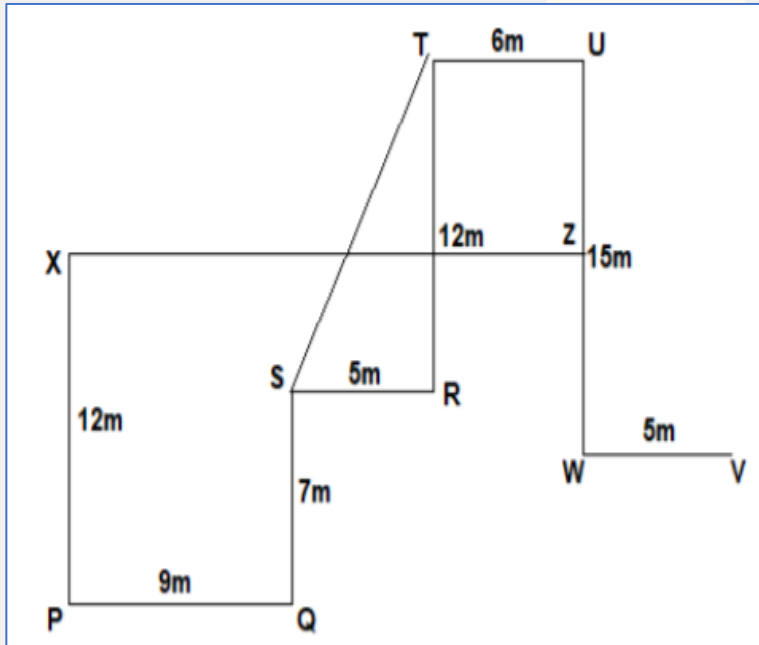
M & N (89m) – M is 76m south of N.

M % N (52m) – M is 39m east of N.

M @ N (110m) – M is 97m north of N.

M # N (58m) – M is 45m west of N.

**X @ P (25m), W # V (18m), R % S (18m), Q % P (22m), T # U (19m), Q & S (20m), W & U (28m),
T @ R (25m)**



If $Z \% X$ (33m) then what is sum of the shortest distance between S and T and the shortest distance between Z and U?

- a. 20m b. 25m c. 29m d. 32m e. None of these

If $R \# K$ (19m), which among the following statements is true?

- a. $X \# A$ (33m), $K @ A$ (4m)
 b. $B @ V$ (16m), $K \# B$ (18m)
 c. $D \& X$ (18m), $K \% D$ (20m)
 d. $F \% Q$ (24m), $F \& K$ (19m)
 e. None is true.

A \$ B means A is to the north of B at a distance of either 4m or 9m

A & B means A is to the west direction of B at a distance of either 3m or 12m

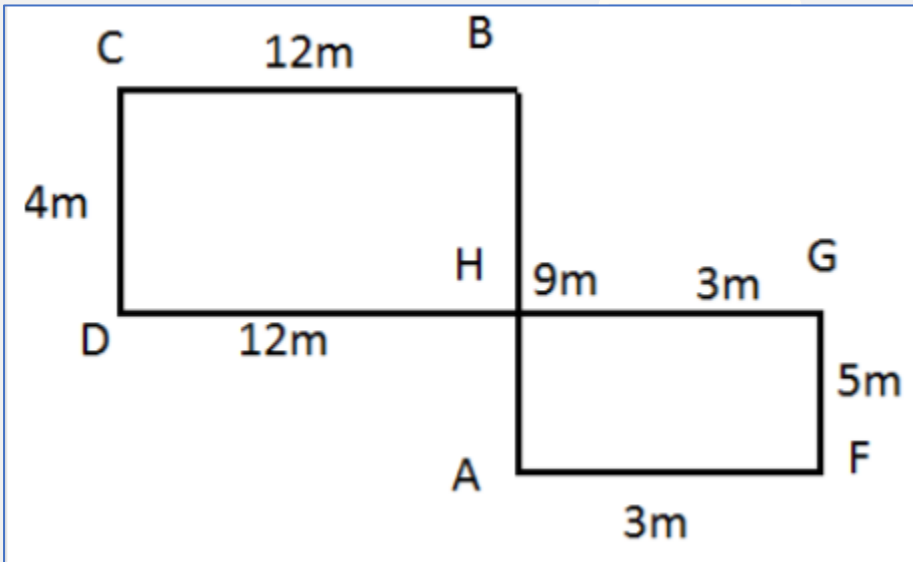
A % B means A is to the south direction of B at a distance of either 4m or 9m

A # B means A is to the east direction of B at a distance of either 3m or 12m

A \$# B means A is to the north-east of B

A %# B means A is to the south-east direction of B

Statement B\$A, C&B, D%C, D\$&A, D&H&G, B\$H, A&F, (CB>AF)



In which direction is C with respect to F?

- a. North b. East c. North-East d. North-West e. None of these

What is the distance between D and G?

- a. 10 m b. 28 m c. 9m d. 15 m e. 14 m

What is the total distance between F and G?

- a. 5m b. 15m c. 4m d. 12m e. None of these

In which direction is B with respect to D?

- a. North b. East c. North-East d. North-West e. None of these

If C & J, then what is the total distance between J and D. (It is given that $AF=CJ$) a. 5m b. 15m c. 4m d. 12m e. None of these

A@B (6)- A is 10m in north of B

A\$B (10)- A is 14m in south of B

A%B (12)- A is 10m in east of B

A&B (15)- A is 13m in west of B

**P%Q(16), R&S(12), T&U(20), U\$S(15),
P@T(10), W\$R(17)**

What is the shortest distance between point P and point U?

(a) $2\sqrt{130}m$ (b) 520m (c) 130m (d) 260m (e) None of these

If M is the mid point of the line segment TU, then determine the distance between the point T and point M? (a) 9m (b) 10m (c) 8m (d) None of these (e) 7m

What is the shortest distance between the point U and point W? (a) 85m (b) 120m (c) None of these (d) $\sqrt{104}m$ (e) $\sqrt{130}m$



