



# DAILY QUESTIONS

14<sup>TH</sup> JUNE '18

REASONING- DIRECTIONS

# DIRECTIONS

**I.1) directions for the question:**

**A, B, C, D, E, F, G, and H are eight buildings in a colony.**

**Further it is known that,**

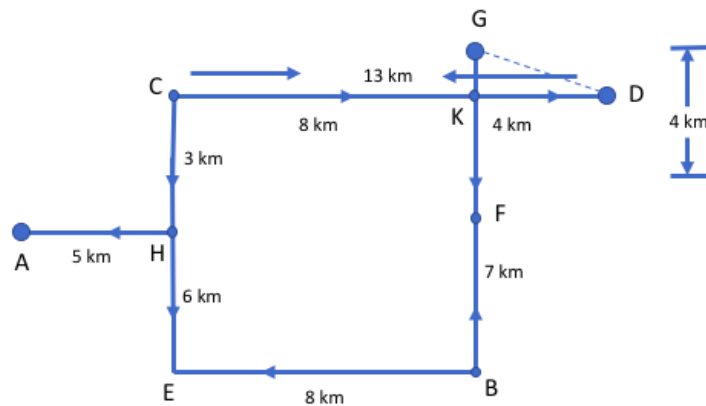
**A is 5 km towards the west of H, which is 3 km towards the South of C. E is 9 km towards the South of C and 8 km towards the West of B. F is 7 km towards the North of B and 4 km towards the South of G. D is 13 km towards the East of C.**

**Q.1) How far and in which direction is D with respect of G?**

- [a]  $\sqrt{20}$  km, South-East**
- [b]  $\sqrt{29}$  km, South-west**
- [c]  $\sqrt{30}$  km, North-east**
- [d]  $\sqrt{29}$  km, South-east**



The given data can be shown as shown below:



Solution 1) (d)

$$DK = DC - KC = 13 - 8 = 5 \text{ KM}$$

$$GK = (BF + FG) - (HE + CH)$$

$$= (7 + 4) - (6 + 3) = 2 \text{ KM}$$

$$DG = \sqrt{GK^2 + DK^2} = \sqrt{4 + 25} = \sqrt{29} \text{ km}$$

So D is  $\sqrt{29}$  km towards the south-east of G.

# DIRECTIONS

**I.2) directions for the questions:**

**A, B, C, D, E, F, G, and H are eight buildings in a colony. Further it is known that,**

**A is 5 km towards the west of H, which is 3 km towards the South of C. E is 9 km towards the South of C and 8 km towards the West of B. F is 7 km towards the North of B and 4 km towards the South of G. D is 13 km towards the East of C.**

**Q.2) If the distance between E and B is equal to the distance between C and T, which is towards the East of C, then how far is G with respect to T?**

- [a] 1 km**
- [b] 3 km**
- [c] 2 km**
- [d] 4 km**

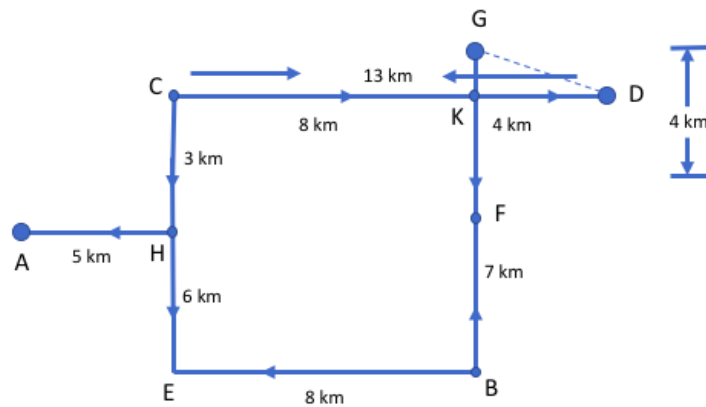


## Solution (2) (C)

T and K are at the same position.

GT = 2 km (as FG is 4 km, GK is 2 km, FK is 2 km)

The given data can be shown as shown below:



# DIRECTIONS

I.3) directions for the questions :

A, B, C, D, E, F, G, and H are eight buildings in a colony. Further it is known that,

A is 5 km towards the west of H, which is 3 km towards the South of C. E is 9 km towards the South of C and 8 km towards the West of B. F is 7 km towards the North of B and 4 km towards the South of G. D is 13 km towards the East of C.

Q.3) How far is B from H?

[a] 10 km

[b] 9 km

[c] 11 km

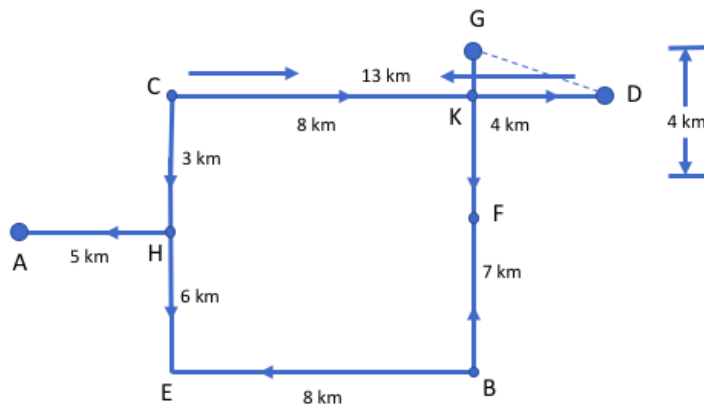
[d] 14 km



Solution (3) (a)

$$BH = \sqrt{BE^2 + HE^2} = \sqrt{8^2 + 6^2} = 10 \text{ km}$$

Solution: The given data can be shown as shown below:



# DIRECTIONS

I.4) directions for the question:

Seven cars C1, C2, C3, C4, C5, C6 and C7 are parked in a parking lot.

Further it is known that, C3 is 10 m towards the South of C1. C6 is 7 m towards the north of C7, which is 10 m towards the South of C5.

C4 is 10 m towards the East of C6, which is 3 m towards the West of C1. C2 is 3 m towards the East of C5.

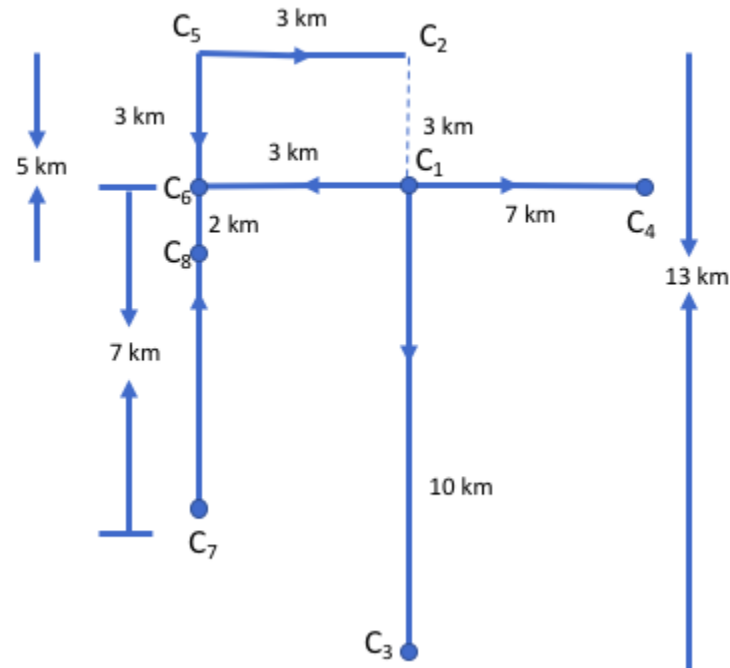
Q.4) How far and in which direction is C3 with respect of C2?

- [a] 10 m, South
- [b] 13 m, South
- [c] 10 m, North
- [d] 13 m, North





The given data can be shown as shown below:



Solution 4) (b)

C3 is 13 km towards the south of C2.

# DIRECTIONS

I.5) directions for the question:

Seven cars C1, C2, C3, C4, C5, C6 and C7 are parked in a parking lot.

Further it is known that, C3 is 10 m towards the South of C1. C6 is 7 m towards the north of C7, which is 10 m towards the South of C5.

C4 is 10 m towards the East of C6, which is 3 m towards the West of C1. C2 is 3 m towards the East of C5.

Q.5) Which among the following cars are collinear?

[a] C5, C2, C1

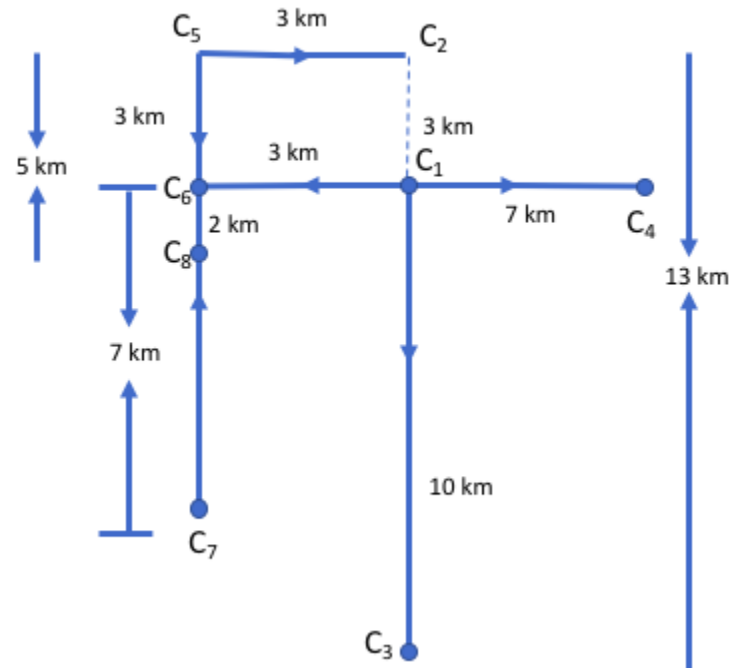
[b] C1, C4, C3

[c] C1, C6, C4

[d] C1, C6, C7



Solution : The given data can be shown as shown below:



Solution 5) (c)

$C_1, C_6$  and  $C_4$  are collinear.

# DIRECTIONS

I.6) directions for the question:

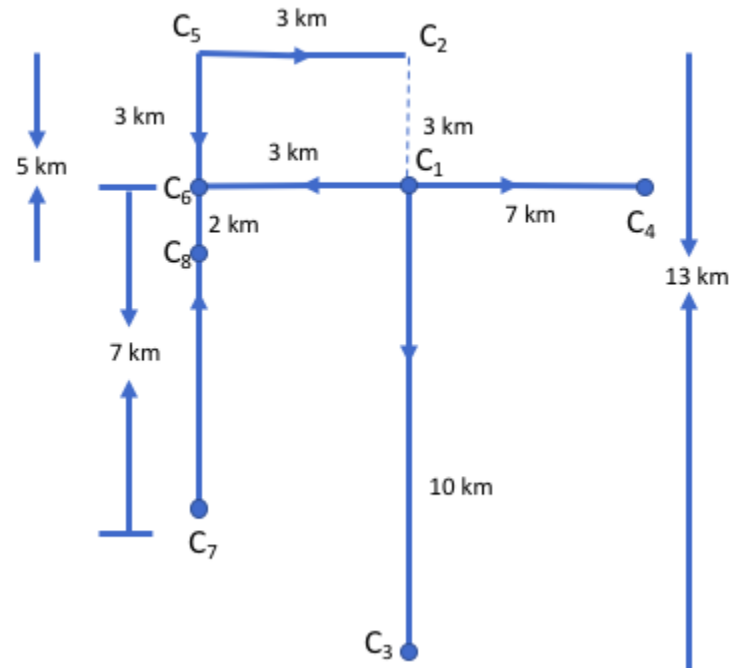
seven cars C1, C2, C3, C4, C5, C6 and C7 are parked in a parking lot. Further it is known that, C3 is 10 m towards the South of C1. C6 is 7 m towards the north of C7, which is 10 m towards the South of C5. C4 is 10 m towards the East of C6, which is 3 m towards the West of C1. C2 is 3 m towards the East of C5.

Q.6) If a car C8 is parked exactly between C5, and C7, then how far is C6 with respect to C8?

- [a] 1 m
- [b] 2 m
- [c] 3 m
- [d] 4 m



Solution : The given data can be shown as shown below:



Solution 6) (b)

C6 is 2 m away from C8.



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# DIRECTIONS

I.7) direction for the question:

Four ants A1, A2, A3 and A4 started from a common point. Further it is known that,

A1 moved 5 m toward the North, A2 moved 7 m towards the East, A3 moved 8 m towards the South and A4 moved 6 m towards the West. A1, A2, A3 and A4 took a right turn and moved 6 m, 8 m, 9 m and 7 m respectively. And then A2, A4, A1 and A3 took a left turn and moved 2 m, 3 m, 4 m and 5 m respectively and then stopped.

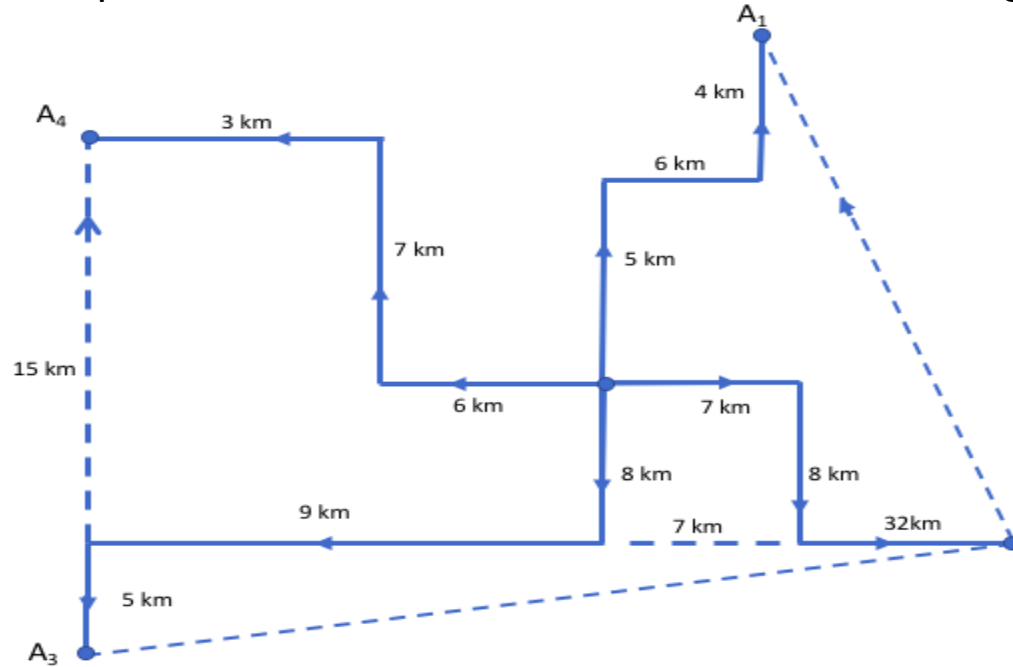
Q.7) How far and in which direction is A4 with respect to A3?

- [a] 20 m, South
- [b] 19 m, North
- [c] 19 m, East
- [d] 20 m, North



Solution :

The given data can be represented as shown below. Let S be the starting point.



Solution 7) (d)

A4 is 20 m towards the north of A3.

# DIRECTIONS

I.8) direction for the question:

Four ants A1, A2, A3 and A4 started from a common point. Further it is known that, A1 moved 5 m toward the North, A2 moved 7 m towards the East, A3 moved 8 m towards the South and A4 moved 6 m towards the West. A1, A2, A3 and A4 took a right turn and moved 6 m, 8 m, 9 m and 7 m respectively. And then A2, A4, A1 and A3 took a left turn and moved 2 m, 3 m, 4 m and 5 m respectively and then stopped.

Q.8) In which direction is A1 with respect to A2?

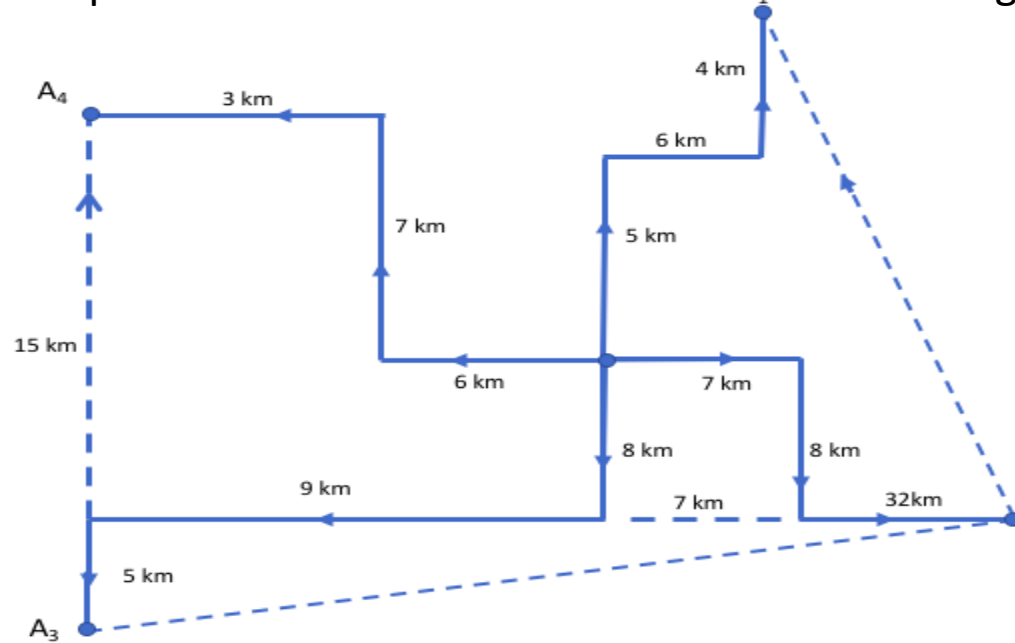
- [a] North
- [b] North-east
- [c] North- west
- [d] South-east





Solution :

The given data can be represented as shown below. Let S be the starting point.



Solution 8) (c)

A1 is towards the North -west of A2.

# DIRECTIONS

I.9) direction for the question:

Four ants A1, A2, A3 and A4 started from a common point. Further it is known that,

A1 moved 5 m toward the North, A2 moved 7 m towards the East, A3 moved 8 m towards the South and A4 moved 6 m towards the West. A1, A2, A3 and A4 took a right turn and moved 6 m, 8 m, 9 m and 7 m respectively. And then A2, A4, A1 and A3 took a left turn and moved 2 m, 3 m, 4 m and 5 m respectively and then stopped.

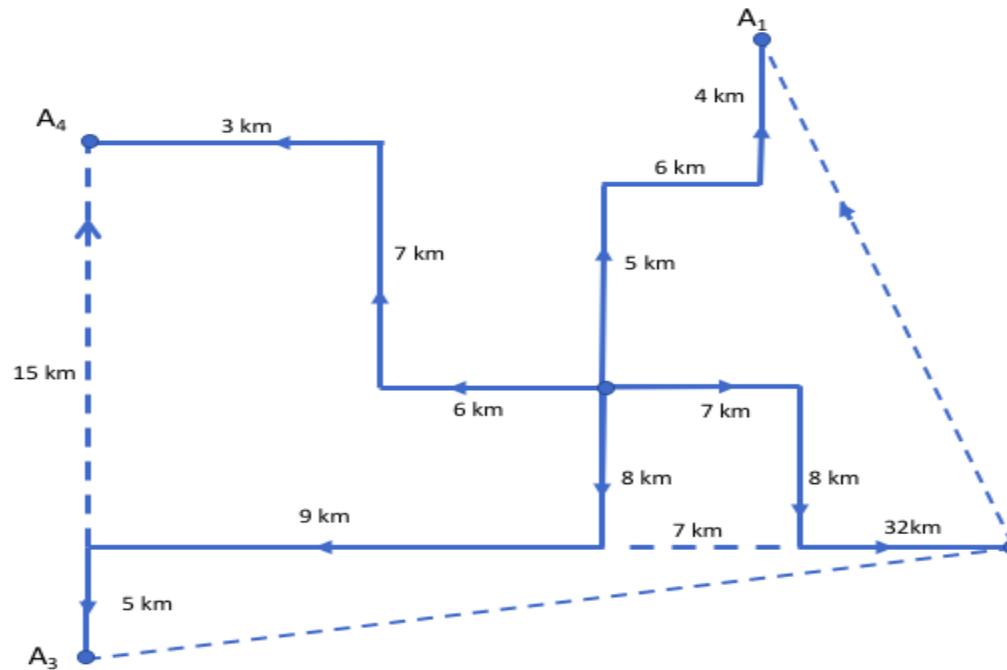
Q.9) Approximately, how far is A2 from A3?

- [a] 20 m
- [b] 18 m
- [c] 21 m
- [d] 19 m



Solution :

The given data can be represented as shown below. Let S be the starting point.



Solution 9) (d)

$A_2 A_3 =$

$$\begin{aligned}
 &= \sqrt{(A_2P)^2 + (A_3P)^2} \\
 &= \sqrt{(2 + 7 + 9)^2 + (5)^2} \\
 &= \sqrt{(18)^2 + (5)^2} \\
 &= \sqrt{349} \\
 &= 19 \text{ m}
 \end{aligned}$$



# DIRECTIONS

I.10) direction for the question: This question is based on the information related to different places in a city.

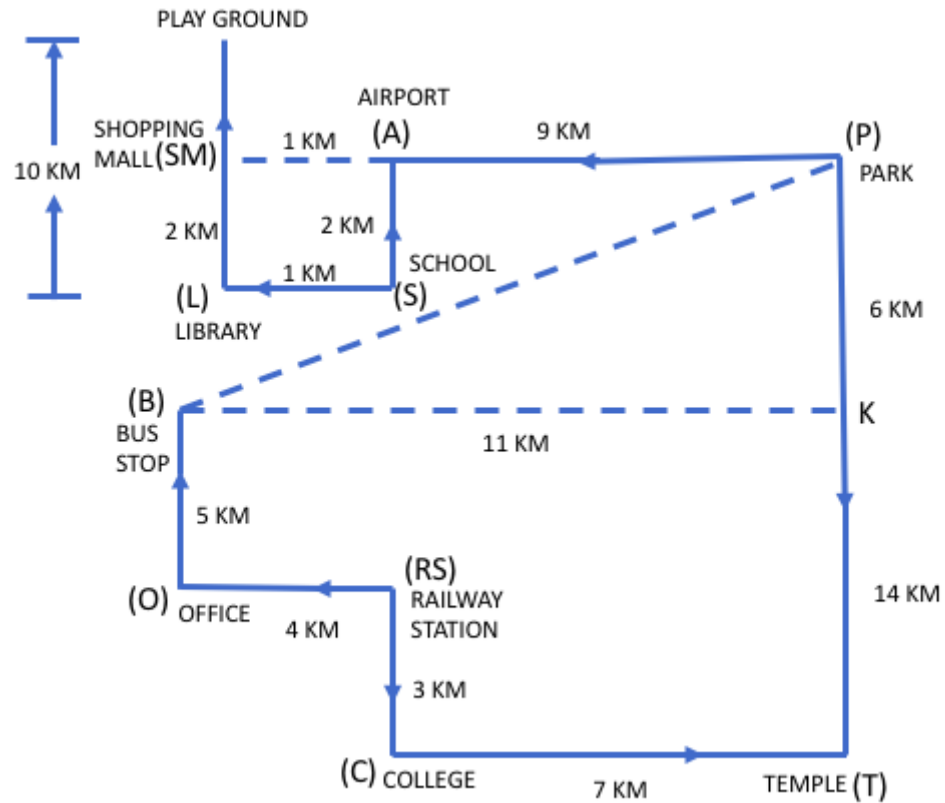
The bus stop is 5 km towards the North of the office, which is 4 km towards the West of the railway station. The temple is 14 km towards the South of park and is 7 km towards the East of the college, which is 3 km towards the South of the railway station. The playground is 10 km towards the North of the library, which is 1 km towards the west of the school. The airport is 9 km towards the West of the park and is 2 km towards the North of the school.

Q.10) If the shopping mall is 1 km towards the west of the airport, then how far and in which direction is the library with respect to the shopping mall?

- [a] 2 km, North
- [b] 1 km, South
- [c] 3 km, south
- [d] none of these



Solution 10) (d) the given data can be represented as shown below:



The library is 2 km towards the south of the shopping mall.