

cracku 

# CAT Data Sufficiency Questions and Answers

8 Nov 2017





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## Question 1:

Zakib spends 30% of his income on his children's education, 20% on recreation and 10% on healthcare. The corresponding percentage for Supriyo are 40%, 25%, and 13%. Who spends more on children's education?

- A. Zakib spends more on recreation than Supriyo.
- B. Supriyo spends more on healthcare than Zakib.
- a) The question can be answered by using one of the statements alone but not by using the other statement alone.
- b) The question can be answered by using either of the statements alone.
- c) The question can be answered by using both statements together but not by either statement alone.
- d) The question cannot be answered on the basis of the two statements.

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## Question 2:

Four candidates for an award obtain distinct scores in a test. Each of the four casts a vote to choose the winner of the award. The candidate who gets the largest number of votes wins the award. In case of a tie in the voting process, the candidate with the highest score wins the award. Who wins the award?

- A. The candidates with top three scores each vote for the top score amongst the other three.
- B. The candidate with the lowest score votes for the player with the second highest score.
- a) The question can be answered by using one of the statements alone but not by using the other statement alone.
- b) The question can be answered by using either of the statements alone.
- c) The question can be answered by using both statements together but not by either statement alone.
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## Question 3:

In a class of 30 students, Rashmi secured the third rank among the girls, while her brother Kumar studying in the same class secured the sixth rank in the whole class. Between the two, who had a better overall rank?

- A. Kumar was among the top 25% of the boys merit list in the class in which 60% were boys.
- B. There were three boys among the top five rank holders, and three girls among the top ten rank holders.

- a) The question can be answered by using one of the statements alone but not by using the other statement alone.
- b) The question can be answered by using either of the statements alone.
- c) The question can be answered by using both statements together but not by either statement alone.
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## Question 4:

Tarak is standing 2 steps to the left of a red mark and 3 steps to the right of a blue mark. He tosses a coin. If it comes up heads, he moves one step to the right; otherwise he moves one step to the left. He keeps doing this until he reaches one of the two marks, and then he stops.

At which mark does he stop?

A. He stops after 21 coin tosses.

B. He obtains three more tails than heads.

a) The question can be answered by using one of the statements alone but not by using the other statement alone.

b) The question can be answered by using either of the statements alone.

c) The question can be answered by using both statements together but not by either statement alone.

d) The question cannot be answered on the basis of the two statements.

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## Question 5:

Ravi spent less than Rs. 75 to buy one kilogram each of potato, onion, and gourd. Which one of the three vegetables bought was the costliest?

A. 2 kg potato and 1 kg gourd cost less than 1 kg potato and 2 kg gourd.

B. 1 kg potato and 2 kg onion together cost the same as 1 kg onion and 2 kg gourd.

a) The question can be answered by using one of the statements alone but not by using the other statement alone.

b) The question can be answered by using either of the statements alone.

c) The question can be answered by using both statements together but not by either statement alone.

d) The question cannot be answered on the basis of the two statements.

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## Solutions:

### 1) Answer (A)

We have to find out if  $3Z > 4S \Rightarrow Z > 1.33S$

According to statement 1,  $Z/5 > S/4 \Rightarrow Z > 1.25S$

According to statement 2,  $13S > 10Z \Rightarrow Z < 1.3S$

So, using statement 2 alone, we can answer the question

### 2) Answer (A)

Let the persons be A,B,C and D in order of the scores tha is, A scores the highest and D the least.

Statement A: A votes for B , B and C votes for A

Even if D votes for B, then also A wins as A has higher score as compared to B.

A alone is sufficient.

StatementB: D votes for B

Nothing can be inferred from this statement.

### 3) Answer (A)

We know that Rashmi secured the third rank among the girls, while her brother Kumar studying in the same class secured the sixth rank in the whole class.

Considering statement A we have 18 B and 12 G and out of 18 boys kumar is among top 4 . But in this case we can't get the relative posiiton of rashmi and kumar.

Consider statement B. We know that among top 5 , 3 are boys and 2 are girls .So rashmi is not among top5 and we know that Kumar's rank is 6 . So Rashmi is definately below Kumar.

Hence, the question can be answered by using one of the statements alone but not by using the other statement alone.

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## 4) Answer (B)

Consider Statement A:

B\_\_x\_R

If the person has to reach red, then he has to take 2 steps in the most simplest manner. Now suppose he first takes left step and then takes a right step. He has taken 2 steps and has to take further 2 steps in order to reach red. In this way, a person has to take even number of steps to reach red. In the similar manner, a person has to take three steps to reach blue in the simplest manner. It means he would have to take odd number of steps to reach blue and since 21 is an odd number, therefore the person would reach blue step.

Consider Statement B,

It is given that the person obtains 3 more tails as compared to heads. Take the case of 1 head and four tails. In this case, he would reach blue step. Now take the case of 2 heads and 5 tails. In this case 2 heads are neutralised by 2 tails. The remaining portion is 3 tails which would help to reach blue steps. In this manner, no matter how many heads are, three more tails would make sure that the person reaches blue corner.

## 5) Answer (C)

Using statement 1 alone,  $2P + G < P + 2G$

$$\Rightarrow P < G$$

Using statement 2 alone,  $P + 2O = O + 2G$

$$\Rightarrow P + O = 2G$$

So, using either statement alone, we cannot find the answer to the question.

However, by using both the statements together, we can determine that  $P < G < O$

So, option c) is the answer.

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