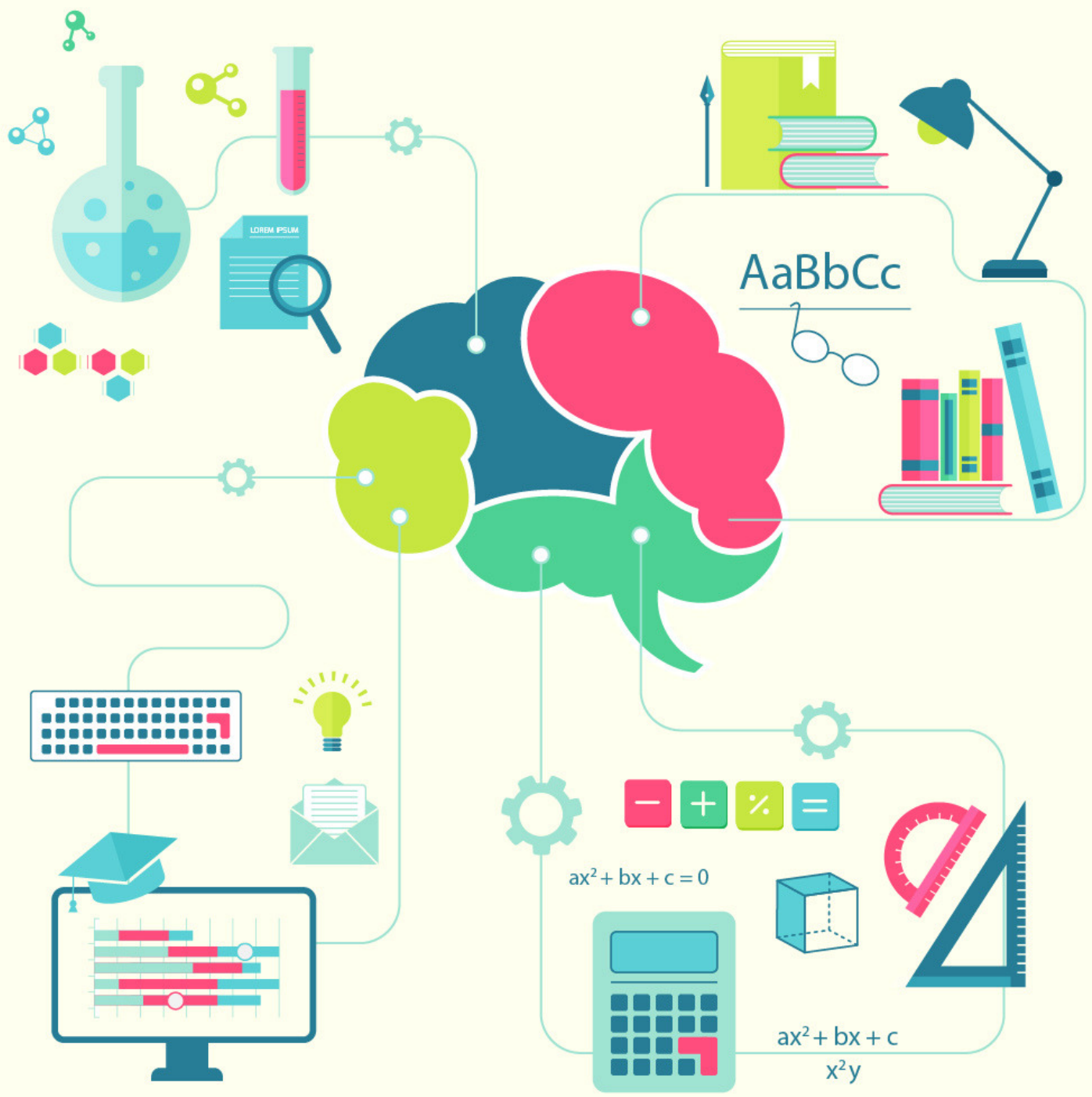




Ratio And Proportion Questions For CAT

10 Nov 2017





TAKE CRACKU'S FREE CAT MOCK

Question 1:

The average marks of a student in 10 papers are 80. If the highest and the lowest scores are not considered, the average is 81. If his highest score is 92, find the lowest.

- a) 55
- b) 60
- c) 62
- d) Cannot be determined

Question 2:

The last time Rahul bought Diwali cards, he found that the four types of cards that he liked were priced Rs.2.00, Rs.3.50, Rs.4.50 and Rs.5.00 each. As Rahul wanted 30 cards, he took five each of two kinds and ten each of the other two, putting down the exact number of 10 rupees notes on the counter payment. How many notes did Rahul give?

- a) 8
- b) 9
- c) 10
- d) 11

CAT Score vs Percentile 2017

100 FREE GK TESTS FOR IIFT

DOWNLOAD THE APP

25 Mocks + 30 Sectionals
for the unbelievable price
of **Rs 999/-**



**15,000 SOLVED
CAT QUESTIONS**
for just Rs 1200



**700 CAT VIDEOS
COVERING FULL PORTION**





SOLVE PAST CAT PAPERS

Question 3:

One bacterium splits into eight bacteria of the next generation. But due to environmental condition only 50% survives and remaining 50% dies after producing next generation. If the seventh generation number is 4,096 million, what is the number in first generation?

- a) 1 million
- b) 2 million
- c) 4 million
- d) 8 million

[Click here](#)

Free GK Tests for IIFT Exams

Question 4:

You can collect as many rubies and emeralds as you can. Each ruby is worth Rs. 4 crore and each emerald is worth Rs. 5 crore. Each ruby weighs 0.3 kg. And each emerald weighs 0.4 kg. Your bag can carry at the most 12 kg. What should you collect to get the maximum wealth?

- a) 20 rubies and 15 emeralds
- b) 40 rubies
- c) 28 rubies and 9 emeralds
- d) None of these

25 Mocks + 30 Sectionals
for the unbelievable price
of **Rs 999/-**



**15,000 SOLVED
CAT QUESTIONS**
for just Rs 1200



**700 CAT VIDEOS
COVERING FULL PORTION**



RS 2500 ONLY

XAT PREVIOUS SOLVED PAPERS DOWNLOAD THE APP





TAKE CRACKU'S FREE CAT MOCK

[Click here](#)

Tricks To Improve Your Percentile from 90 to 95 in CAT

Question 5:

My son adores chocolates. He likes biscuits. But he hates apples. I told him that he can buy as many chocolates he wishes. But then he must have biscuits twice the number of chocolates and should have apples more than biscuits and chocolates together. Each chocolate cost Re 1. The cost of apple is twice the chocolate and four biscuits are worth one apple. Then which of the following can be the amount that I spent on that evening on my son if number of chocolates, biscuits and apples brought were all integers?

- a) Rs. 34
- b) Rs. 33
- c) Rs. 8
- d) None of these

25 Mocks + 30 Sectionals
for the unbelievable price
of **Rs 999/-**



**15,000 SOLVED
CAT QUESTIONS**
for just Rs 1200



**700 CAT VIDEOS
COVERING FULL PORTION**



RS 2500 ONLY

100 FREE GK TESTS FOR IIFT
DOWNLOAD THE APP





SOLVE PAST CAT PAPERS

Solutions: 1 to 5

1) Answer (b)

Total marks = $80 \times 10 = 800$

Total marks except highest and lowest marks = $81 \times 8 = 648$

So Summation of highest marks and lowest marks will be = $800 - 648 = 152$

When highest marks is 92, lowest marks will be = $152 - 92 = 60$

Number System Question for CAT [Download PDF]

2) Answer (d)

According to question Rahul put exact number of 10 rs. notes, hence total price will be a multiple of 10.

And Rahul wants 30 cards, where he took 5 each of two kind and 10 each of other two kind.

So summation of (price of one type card multiplied by number of that type of card) should be a multiple of 10.

By looking at the prices of cards and to make the sum a multiple of 10, we can say that two 5 cards were of rs. 3.5 and 4.5 and two 10 cards were of prices 2 rs. and 5 rs each respectively.

Hence total sum will be $5 \times (3.5 + 4.5) + 10 \times (2 + 5) = 110$

So rahul gave 11 notes of 10 rs.

25 Mocks + 30 Sectionals
for the unbelievable price
of **Rs 999/-**



**15,000 SOLVED
CAT QUESTIONS**
for just Rs 1200



**700 CAT VIDEOS
COVERING FULL PORTION**



XAT PREVIOUS SOLVED PAPERS
DOWNLOAD THE APP





TAKE CRACKU'S FREE CAT MOCK

3) Answer (a)

let's say x is the initial number of bacterias :

So in 2nd generation no. of bacterias = $8x/2 = 4x$

In 3rd generation, it will be = $16x$

4th gen. = $64x$

5th gen. = $256x$

6th gen. = $1024x$

7th gen. = $4096x$

Hence $x = 1$ million

100 FREE GK TESTS FOR IIFT DOWNLOAD THE APP

4) Answer (b)

Let's say number of rubbies are x and emeralds are y .

So $0.3x + 0.4y = 12$

And total wealth = $4x + 5y$

Now putting value of x from eq.1 to eq.2

i.e. total wealth = $4(12 - 0.4y)/0.3 + 5y$

Now for maximizing total wealth y should be equal to zero.

Hence $x = 40$

25 Mocks + 30 Sectionals
for the unbelievable price
of **Rs 999/-**



**15,000 SOLVED
CAT QUESTIONS**
for just Rs 1200



**700 CAT VIDEOS
COVERING FULL PORTION**



100 FREE GK TESTS FOR IIFT DOWNLOAD THE APP





SOLVE PAST CAT PAPERS

5) Answer (a)

When numbers of chocolates, biscuits and apples are integers.

Now let's say number of chocolates taken 1, then biscuits will be 2 and apples can be 4,5,6,7

Hence minimum money that should be spent = $1+1+8 = 10$
(Hence option C is cancelled)

Now when number of chocolates are 4

Biscuits will be 8

And apples can be 13,14,15....

Now total money spent can be $4+4+26 = 34$ and more of it.

Hence answer will be A

Verbal Ability for CAT
[Download PDF]

WhatsApp 'CAT' to join in CAT
Group to this number
(7661025559)

25 Mocks + 30 Sectionals
for the unbelievable price
of **Rs 999/-**



15,000 SOLVED
CAT QUESTIONS
for just **Rs 1200**



700 CAT VIDEOS
COVERING FULL PORTION



100 FREE GK TESTS FOR IIFT
DOWNLOAD THE APP

