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# Average Questions for SSC CGL PDF

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**Question 1:** The incomes of A and B are in the ratio 3 : 2 and their expenditures are in the ratio 5:3. If each saves Rs. 1000, then A's income is

- a) Rs. 6000
- b) Rs. 4000
- c) Rs. 2000
- d) Rs. 5000

**Question 2:** The difference between successive discounts of 40% followed by 30% and 45% followed by 20% on the marked price of an article is Rs. 12. The marked price of the article is :

- a) 800
- b) 400
- c) 200
- d) 600

**Question 3:** Which of the following represents a correct proportion ?

- a)  $12: 9 = 16 : 12$
- b)  $13 : 11 = 5 : 4$
- c)  $30 : 45 = 13 : 24$
- d)  $6 : 10 = 4: 10$

**Question 4:** In a Mathematics examination the numbers scored by 5 candidates are 5 successive odd integers. If their total marks is 185, the highest score is

- a) 39
- b) 43
- c) 41
- d) 37

**Question 5:** Three numbers are in the ratio 1 : 2 : 3 and their HCF is 12. The numbers are

- a) 12,24, 36
- b) 5, 10, 15
- c) 4, 8, 12
- d) 10, 20, 30

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**Question 6:** The ratio of two numbers is 3 : 4 and their LCM is 180. The second number is

- a) 30
- b) 60
- c) 45
- d) 90

**Question 7:** A person distributes his pens among four friends A, B, C, D in the ratio  $\frac{1}{3} : \frac{1}{4} : \frac{1}{5} : \frac{1}{6}$ . What is the minimum number of pens that the person should have?

- a) 60
- b) 65
- c) 75
- d) 45

**Question 8:** The arithmetic mean of the scores of a group of students in a test was 52. The brightest 20% of them secured a mean score of 80 and the dullest 25%, a mean score of 31. The mean score of remaining 55% is :

- a) 50%
- b) 51.4% approx.
- c) 54.6% approx.
- d) 45%

**Question 9:** Out of 10 teachers of a school, one teacher retires and in his place, a new teacher of age 25 years joins. As a result, average age of teachers is reduced by 3 years. The age (in years) of the retired teacher is:

- a) 58
- b) 60
- c) 55
- d) 50

**Question 10:** Three numbers are in the ratio 1 : 2 : 3. By adding 5 to each of them, the new numbers are in the ratio 2 : 3 : 4. The numbers are:

- a) 10, 20, 30
- b) 15, 30, 45
- c) 1, 2, 3
- d) 5, 10, 15

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## Answers & Solutions:

### 1) Answer (A)

As incomes of A and B are in the ratio 3 : 2. So , assume incomes of A and B be 3z and 2z respectively

As the expenditure are in the ratio 5:3. So assume expenditure of A and B be 5y and 3y respectively

Now it is given that every one saves Rs 1000

$$3z - 5y = 1000 \dots\dots\dots(1)$$

$$2z - 3y = 1000\dots\dots\dots(2)$$

Solving equations 1 and 2

$$y = \text{Rs } 1000$$

$$z = \text{Rs } 2000$$

hence income of A = 3z = 3 x 2000 = Rs 6000

### 2) Answer (D)

let the marked price of the article be Rs y

**1st case :**

Two successive discounts 40% followed by 30%

So after these two successive discounts the value of article becomes =  $0.6 \times 0.7 \times y = 0.42 y$

**2nd case:**

Two successive discounts are 45% followed by 20%

So after these two discounts the price if article becomes =  $0.55 \times 0.8 \times y = 0.44y$

It is given that :

$$0.44y - 0.42y = 12$$

$$0.02y = 12$$

$$y = \text{Rs } 600$$

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### 3) Answer (A)

Checking option 1 )

$$12: 9 = 4:3, 16 : 12 = 4:3$$

Checking option 2)

$$13 : 11 = 13:11 , 5 : 4= 5:4$$

checking option 3)

$$30 : 45 = 2:3, 26 : 24 = 13:12$$

Checking option 4)

$$6 :10 = 3:5, 4: 10 = 2:5$$

So option A is correct

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## 4) Answer (C)

let the numbers of 5 candidates be  $a-3, a-1, a+1, a+3, a+5$

It is given that

$$a-3+a-1+a+1+a+3+a+5 = 185$$

$$5a + 5 = 185$$

$$5a = 180$$

$$a = 36$$

$$\text{The highest score} = a + 5 = 36 + 5 = 41$$

## 5) Answer (A)

As the numbers are in the ratio of 1:2:3 so let the numbers be  $y, 2y, 3y$

The numbers taken are co prime,  $\Rightarrow$  the highest common factor =  $y$

and  $y = 12$

$\Rightarrow$  Numbers are 12, 24, 36

## 6) Answer (B)

As the numbers are in the ratio 3:4

so assume the numbers are  $3z$  and  $4z$

$$\text{LCM of } 3z \text{ and } 4z = 12z$$

it is given that LCM of the above two numbers are = 180

$$\text{So, } 12z = 180$$

$$z = 15$$

$$\text{and hence 2nd number} = 4z = 4 \times 15 = 60$$

## 7) Answer (A)

It is given that A person distributes his pens among four friends A, B, C, D in the ratio  $1/3 : 1/4 : 1/5 : 1/6$

So when he is distributing pens, then the number of pens distributed to everyone should be a natural number and hence the number of total pens should be a multiple of 3, 4, 5, 6

and the smallest natural number divisible by 3, 4, 5, 6 is its LCM which is = 60

and hence minimum 60 pens should be there with the man before distribution.

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## 8) Answer (B)

Let the total number of people be 100 and total marks be 100.

$$\text{Average} = 52 \Rightarrow \text{Total} = 5200$$

$$\text{Average of brightest 20} = 80 \Rightarrow \text{Total marks scored by brightest 20} = 80 \times 20 = 1600$$

$$\text{Average of dullest 25} = 31. \Rightarrow \text{Total marks scored by dullest 25} = 25 \times 31 = 775$$

$$\text{Marks scored by remaining 55} = 5200 - 1600 - 775 = 2825$$

$$\text{Average} = 2825/55 = 51.4 \% \text{ (Approx.)}$$

Option B is the right answer.

## 9) Answer (C)

Number of teachers = 10 years

Let the initial average age be A years

$$\text{total age before retirement} = 10A$$

Now new average age = (A-3) years

$$\text{So new total age after new person joined} = 10 \times (A-3) = 10A - 30 \dots\dots\dots(1)$$

let the age of retired teacher be z years, So

$$\text{new total age can be calculated also as} = 10A - z + 25 \dots\dots\dots(2)$$

equations 1 and 2 are equal

$$\text{so, } 10A - 30 = 10A - z + 25$$

$$z = 55 \text{ years.}$$

## 10) Answer (D)

Initial ratio of the numbers 1:2:3

So, let the numbers be y , 2y , 3y

Now adding 5 to each number will give us y+5, 2y+5, 3y+5

as it is given that new ratio is 2:3:4 so assume that the new numbers are 2z, 3z, 4z

and hence we can relate numbers in following way:

$$y+5 = 2z \dots\dots\dots(1)$$

$$2y + 5 = 3z \dots\dots\dots(2)$$

$$3y+5 = 4z \dots\dots\dots(3)$$

from equation 1 and 2

$$y = 5 \text{ and } z = 5$$

So initially the numbers are

$$(5 , 10 , 15 )$$

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