



Average Questions For IBPS PO PDF

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Instructions

For the following questions answer them individually

Question 1

Ramola's monthly income is three times Ravina's monthly income, Ravina's monthly income is fifteen percent more than Ruchika's monthly income. Ruchika's monthly income is Rs. 32,000. What is Ramola's annual income?

- A Rs. 1, 10, 400
- B Rs. 13, 24, 800
- C Rs. 36, 800
- D Rs. 52, 200
- E None of these

Answer: B

Explanation:

Ruchika's monthly income = Rs 32000

Ravina's monthly income = $32000 \times (1 + \frac{15}{100}) = 32000 \times \frac{115}{100} = \text{Rs. } 36800$

Ramola's monthly income = $3 \times 36800 = 110400$

Ramola's annual income = $12 \times 110400 = 1324800$

Question 2

An HR Company employs 4800 persons, out of which 45 percent are males and 60 percent of the males are either 25 years or older. How many males are employed in that HR Company who are younger than 25 years?

- A 2640
- B 2160
- C 1296
- D 864
- E None of these

Answer: D

Explanation:

Total employees = 4800

45% of employees are males = $\frac{45}{100} \times 4800 = 2160$

60% of 2160 are equal to or older than 25

So 40% of 2160 are younger than 25 years = $\frac{40}{100} \times 2160 = 864$

Question 3

A person travels from P to Q at a speed of 40 kmph and returns to Q by increasing his speed by 50%. What is his average speed for both the trips?

- A 36 kmph
- B 45 kmph
- C 48 kmph
- D 50 kmph

E None of these

Answer: C

Explanation:

$$\text{Return speed} = \frac{40}{100} \times 150 = 60 \text{ kmph}$$

$$\text{Average speed} = \frac{2 \times 40 \times 60}{(40+60)} = \frac{4800}{100} = 48 \text{ kmph}$$

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Question 4

On combining two groups of students having 30 and 40 average marks respectively in an exam, the resultant group has an average score of 34. Find the ratio of the number of students in the first group to the number of students in the second group.

A 2 : 1

B 3 : 2

C 3 : 1

D 4 : 3

E None of these

Answer: B

Explanation:

$$\text{Required ratio} = (40-34)/(34-30) = 6/4 = 3/2$$

Question 5

The price of a book is first increased by 10% and then decreased by 5%, then the net change in the price will be

A 4.2% increase

B 4.5% increase

C 4.2% decrease

D 4.5% decrease

E None of these

Answer: B

Explanation:

Let the original price be Rs. 100.

$$\text{New final price} = 95\% \text{ of } (110\% \text{ of Rs. } 100) = \text{Rs. } 95/100 \times 110/100 \times 100 = \text{Rs. } 104.5$$

$$\therefore \text{Increase in price} = 4.5\%$$

Question 6

The average of five numbers is 57.8. The average of the first and the second numbers is 77.5 and the average of the fourth and fifth numbers is 46. What is the third number ?

A 45

- B 43
- C 42
- D Cannot be determined
- E None of these

Answer: C

Explanation:

Let the numbers be a,b,c,d and e.

$$\text{Now } \frac{a+b+c+d+e}{5} = 57.8 \times 5$$

$$a+b+c+d+e=292$$

$$\text{Now, } \frac{a+b}{2} = 77.5, a+b=155$$

$$\text{Also, } \frac{d+e}{2} = 46, d+e=92.$$

$$\text{Now, } c=292-(a+b)-(d+e)=292-92-155=42.$$

Hence, the correct option is C.

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Question 7

If the numerator of certain fraction increased by 100% and the denominator is increased by 200% the new fraction thus formed is $\frac{4}{21}$ What is the original fraction ?

- A $\frac{2}{7}$
- B $\frac{3}{7}$
- C $\frac{2}{5}$
- D $\frac{4}{7}$
- E None of these

Answer: A

Explanation:

If the numerator (assume to be x) is increased by 100%, it becomes 2x

and the denominator (assume to be y) is increased by 200%, it becomes 3y.

$$\text{The new fraction is } \frac{2x}{3y} = \frac{4}{21}$$

Hence, simplifying we get fraction has $\frac{2}{7}$

Question 8

The average of five numbers is 49 the average of the first and the second numbers is 48 and the average of the fourth and fifth number is 28. What is the third number ?

- A 92
- B 91
- C 95

D Cannot be determined

E None of these

Answer: E

Explanation:

Let the numbers be a,b,c,d,e.

Hence $(a+b+c+d+e)/5=49$

$(a+b)/2=48, a+b=96.$

$(d+e)/2=28, d+e=56$

$c=245-96-56=93$

Question 9

The average speed of a train is 3 times the average speed of a car . The car covers a distance of 520 kms in 8 hours .how much distance will the train cover in 13 hours ?

A 2553 kms

B 2585 kms

C 2355 kms

D 2535 kms

E None of these

Answer: D

Explanation:

Let speed of train be x and speed of car be y.

Car covers 520km in 8 hrs, it's speed= $520/8= 65\text{km/hr}$

Speed of train = $3 * 65= 195\text{km/hr}$

Distance covered by train in 13 hrs = $13*195= 2535\text{km}$

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Question 10

If the numerator of a fraction is increased by 400% and the denominator is increased by 500% the resultant fraction is $\frac{10}{21}$. What was the original fraction ?

A $\frac{5}{12}$

B $\frac{8}{13}$

C $\frac{17}{14}$

D $\frac{4}{7}$

E None of these

Answer: D

Explanation:

Let the original fraction be $\frac{X}{Y}$

After 400% increase, the numerator becomes $5X$ and after 500% increase, the denominator becomes $6Y$

Hence, the resulting fraction becomes $\frac{5X}{6Y} = \frac{10}{21}$

So, $\frac{X}{Y} = \frac{4}{7}$

Question 11

One-eighth of a number is 17.25. What will 73% of the number be ?

- A 100.74
- B 138.00
- C 96.42
- D 82.66
- E None of these

Answer: A

Explanation:

The number equals 8 times $17.25 = 138$

Hence, 73% of the number equals $0.73 \times 138 = 100.74$

Question 12

Mr Shamin's salary increase every year by 10% in June. If there is no other increase or reduction in the salary and his salary in June 2011 was rs 22,385, what was his salary in June 2009 ?

- A rs 18,650
- B rs 18,000
- C rs 19,250
- D rs 18,500
- E None of these

Answer: D

Explanation:

Here, the salary is compounded every year.

Let salary be x .

$$22385 = x(1 + .1)^2$$

$$x = 18,500$$

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Question 13

The average score of a cricketer for 13 matches is 42 runs. If the average score for the first 5 matches is 54, then what is his average score (in runs) for last 8 matches?

- A 37
- B 39
- C 34.5

D 33.5

E 37.5

Answer: C

Explanation:

The average score of a cricketer for 13 matches is = 42 runs

Total score in 13 matches will be = $42 \times 13 = 546$

Total score of first 5 matches will be = $54 \times 5 = 270$

Hence, total score of last 8 matches = $546 - 270 = 276$

So average of the last 8 matches will be = $\frac{276}{8} = 34.5$

Question 14

The average weight of 21 boys was recorded as 64kg. If the weight of the teacher is added, the average increased by one kg. What was the teacher's weight?

A 86 kg

B 64 kg

C 72 kg

D 98 kg

E None of these

Answer: A

Explanation:

The average weight of 21 boys is 64 Kgs.

The average weight of 21 boys and the teacher is 65 Kgs.

So, total weight of 21 boys is $21 \times 64 = 1344$

The weight of 21 boys and the teacher = $22 \times 65 = 1430$

Hence, the weight of the teacher is $1430 - 1344 = 86$ Kgs

Question 15

**Find the average of the following sets of sources.
253, 124, 255, 534, 836, 375, 101, 443, 760**

A 427

B 413

C 441

D 490

E None of these

Answer: E

Explanation:

There are 9 numbers in the series:

$$\text{Average} = \frac{253+124+255+534+836+375+101+443+760}{9} = 3681/9 = 409$$

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Question 16

The respective ratio between Sita's and Riya's and Kunal's monthly income is 84: 76: 89. If Riya's annual income is Rs. 456000, what is the sum of Sita's and Kunal's annual incomes? (In some cases monthly income and in some cases annual income is used).

- A Rs. 1195000
- B Rs. 983500
- C Rs. 1130000
- D Rs. 1038000
- E None of these

Answer: D

Explanation:

Let the total annual income of the three persons be x.

The given ratio is 84: 76: 89.

Riya's share in this income would be $\frac{76x}{84+76+89} = \frac{76x}{249}$

$$\frac{76x}{249} = 456000$$

$$x = 14,94,000$$

Sum of Sita's and Kunal's annual incomes = Rs(14,94,000-4,56,000) = Rs 10,38,000

Question 17

Nandita scored 80 per cent marks in five subjects together viz, Hindi, Science, Maths, English and Sanskrit together wherein the maximum marks of each subject were 105. How many marks did Nandita score in Science if she scored 89 marks in Hindi, 92 marks in Sanskrit, 98 marks in Maths and 81 marks in English?

- A 60
- B 75
- C 65
- D 70
- E None of these

Answer: A

Explanation:

The maximum marks of each subject is 105

$$80\% \text{ of } 105 = 84$$

Since there are 5 subjects

$$\text{Average marks} = \frac{\text{Sum of all the marks}}{5} = 84$$

$$\text{Sum of all the marks} = 84 \times 5 = 420$$

$$89 + 92 + 98 + 81 + \text{Science} = 420$$

$$360 + \text{Science} = 420$$

Science = $420 - 360 = 60$

Question 18

The average of four consecutive numbers A, B, C and D respectively is 49.5. What is the product of B and D?

- A 2499
- B 2352
- C 2450
- D 2550
- E None of these

Answer: A

Explanation:

Since the ages of A, B, C, D are consecutive

Let the ages of A, B, C, D be $n, n+1, n+2, n+3$

$$\frac{n+n+1+n+2+n+3}{4} = 49.5$$

$$4n+6 = 49.5 \times 4 = 198$$

$$4n = 192$$

$$n = 48$$

Ages of A, B, C, D = 48, 49, 50, 51

Product of ages of B and D = $49 \times 51 = (50-1)(50+1) = 50^2 - 1 = 2500 - 1 = 2499$.

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Question 19

In order to pass in an exam a student is required to get 780 marks out of the aggregate marks. Sonu got 728 marks and was declared failed by 5 per cent. What are the maximum aggregate marks a student can get in the examination.

- A 1040
- B 1100
- C 1000
- D Cannot be determined
- E None of these

Answer: A

Explanation:

Let the maximum aggregate marks be x

$$\frac{780}{x} - \frac{728}{x} = \frac{5}{100}$$

$$\frac{52}{x} = \frac{1}{20}$$

$$x = 52 \times 20 = 1040$$

Question 20

Mr. Shamin's salary increases every year by 10% in June. If there is no other increase or reduction in the salary and his salary in June 2011 was Rs. 22,385/-, what was his salary in June 2009?

- A** Rs. 18,650
- B** Rs. 18,000
- C** Rs. 19,250
- D** Rs. 18,500
- E** None of these

Answer: D

Explanation:

Let the salary in 2009 be x

Salary in 2010 = $1.1x$

Salary in 2011 = $1.1x \times 1.1 = 1.21x$

$1.21x = 22385$

$x = 18500$

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