

Quiz Date: 16th September 2020

Q1. If the average of 5 odd consecutive natural number is 11. then find out the average of largest and smallest odd number?

- (a) 13
- (b) 12
- (c) 15
- (d) 17
- (e) 11

Q2. $(15423 \times 15425 + x)$ be a perfect square number, where x is least possible natural number then find out value of x ?

- (a) 4
- (b) 9
- (c) 1
- (d) 16
- (e) 13

Q3. The ratio between the ages of a father and a son at present is 5 : 2 respectively. Four year hence the ratio between the ages of the son and his mother will be 1 : 2 respectively. What is the ratio between the present ages of the father and the mother respectively ?

- (a) 3 : 4
- (b) 5 : 4
- (c) 4 : 3
- (d) Cannot be determined
- (e) None of these

Q4. The ratio of Radha's and Ruchi's present ages is 9 : 4. If the difference between the present age of Radha and the age of Ruchi 5 years hence is 5 then what is the sum of the present ages of Radha and Ruchi ?

- (a) 18 years
- (b) 16 years
- (c) 26 years
- (d) 28 years
- (e) None of these

Q5. If 6 years are subtracted from the present age of Randheer and the remainder is divided by 18, then the present age of his grandson Anup is obtained. If Anup is 2 years younger to Mahesh whose age is 5 years, then what is the age of Randheer?

- (a) 96 years
- (b) 84 years
- (c) 48 years
- (d) 60 years
- (e) 72 years

Q6. The average weight of a class is decreased by 1, when 25 students joined the class, whose strength is $\frac{1}{4}$ th of the existing (or old) class and the total weight of the new students is 200 kgs. What is the new average weight of class?

- (a) 12 kgs
- (b) 16 kgs
- (c) 18 kgs
- (d) 19 kgs
- (e) 17 kgs

Q7. The sum of the present ages of mother and son is 45 years. Five years ago, the product of their ages was four time the mother's age at that time, then the present ages of the mother and son respectively are _____ and _____ years.

- (a) 39,6
- (b) 35,10
- (c) 36,9
- (d) 38,7
- (e) 33, 12

Q8. In a market research project, 20% opted for Nirma detergent whereas 60% opted for Surf Blue detergent. The rest were unsure. If the difference between those who opted for Surf Blue and those who were uncertain is 720. How many people participated in the survey?

- (a) 1800
- (b) 1440
- (c) 3600
- (d) Data Inadequate
- (e) None of these

Q9. Ram's weight is 140% of Manu's weight. Tanu's weight is 90% of Mahesh's weight. Mahesh's weight is twice as much as Manu's. What percentage of Ram's weight is Tanu's weight? (approximately)

- (a) 64%
- (b) 78%
- (c) 90%
- (d) 72%
- (e) 68%

Q10. Uday, a very clever businessman, started a business with very little capital. In the first year, he earned a profit of 50% and donated 50% of the total capital (initial capital + profit) to a charitable organization. The same course was followed in the 2nd and 3rd years also. If at the end of three years, he is left with Rs. 16,875, then find the amount donated by him at the end of the 2nd year.

- (a) Rs. 45,000
- (b) Rs. 12,500
- (c) Rs. 22,500
- (d) Rs. 20,000

(e) Rs. 24,000

Q11. If sum of 5 consecutive odd numbers is 425, so what will be the 4th number from the right end. if numbers is arranged in descending order?

- (a) 89
- (b) 79
- (c) 81
- (d) 83
- (e) 87

Q12. If 6 years ago the ratio of ages of son and father is 2:17 and after 4 years from now the ratio will become 7:22. so, what is the current age of father?

- (a) 30
- (b) 34
- (c) 40
- (d) 42
- (e) 45

Q13. Ram scored 80% marks in maths, 120 marks in English and 'X' marks in Science. if maximum marks of each subject are 200 and he scored 70% marks. Find the value of 'X'?

- (a) 100
- (b) 120
- (c) 130
- (d) 140
- (e) 160

Q14. The difference between $\frac{5}{8}$ of a number and $\frac{4}{7}$ of the same number is 48. Find $\frac{1}{4}$ th of that number.

- (a) 224
- (b) 220
- (c) 232
- (d) 228
- (e) 212

Q15. a, b, c and d are four consecutive even numbers, if the sum of 'a' and 'c' is 168, what is the average of the four numbers?

- (a) 84
- (b) 80
- (c) 82
- (d) 85
- (e) 78

Solutions

S1. Ans (e)

Sol.

Let consecutive odd number = $a, a+2, a+4, a+6, a+8$

$$\text{Average} = \frac{a+a+2+a+4+a+6+a+8}{5}$$

$$11 = a+4$$

$$a=7$$

smallest number = 7

and largest number = $a+8=7+8=15$

so, average of smallest and largest number = $\frac{7+15}{2}=11$

S2. Ans (c)

Sol.

$(15423 \times 15425 + x)$ is the based on the format of $((a-1)(a+1) = a^2 - 1)$

So, $15423 \times 15425 + x$

$(15424-1) \times (15424 + 1) + x$

$15424^2 - 1 + x$

So, least value of $x = 1$

S3. Ans.(d)

Sol. $\frac{f}{s} = \frac{5x}{2x} \dots(i)$

$$\frac{s}{m+4} = \frac{2x+4}{m+4} = \frac{1}{2}$$

$$m + 4 = 4x + 8$$

$$m = 4x + 4$$

$$f : m = 5x : (4x + 4)$$

Cannot be determined

S4. Ans.(c)

Sol. Let present ages of Radha and Ruchi is $9x$ and $4x$ years respectively.

ATQ

$$9x - (4x + 5) = 5$$

$$x = 2$$

Ruchi = 8 years

Radha = 18 years

Sum of the present ages of Radha and Ruchi = $18 + 8 = 26$ years

S5. Ans (d)

Sol. Let present age of randheer = x years

Age of anup = $5 - 2 = 3$ years

$$\frac{x-6}{18} = 3, x = 60 \text{ years}$$

S6. Ans.(a)

Sol. $125(x - 1) = 100x + 200$

$$x = 13 \text{ kg}$$

required average = $13 - 1 = 12 \text{ kg}$

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S7. Ans. (c)

Sol. M: S=x: (45 - x)

Five years ago, x - 5: 40 - x

From question $\rightarrow (x - 5)(40 - x) = 4(x - 5)$

x = 36,5 (drop 5 as it cannot be mother's age)

So mother's age = 36, son = 9

S8. Ans. (a)

Sol. Let total percentage of people who participated in survey = 100%

\therefore Uncertain people = $100 - (20 + 60)$

= 20%

ATQ,

$60\% - 20\% \rightarrow 720$

$\therefore 100\% \rightarrow \frac{720}{40} \times 100$

= 1800

S9. Ans. (b)

Sol. Let Manu's weight = x kg

\therefore Mahesh's weight = 2x kg

Tanu's weight = $0.9 \times 2x$

= 1.8x kg

Ram's weight = 1.4x kg

Required percentage = $\frac{1.4x}{1.8x} \times 100$

= 77.8% \approx 78%

S10. Ans. (c)

Sol. Let in the start of 1st year he had Rs. x.

\therefore Amount left at the end of 1st year = $\frac{150x}{100} - \frac{150x}{200}$

= $\frac{150x}{200}$

= $\frac{3x}{4}$

Amount left of the end of 2nd year = $\frac{1}{2} \times \frac{3x}{4} \times \frac{150}{100}$

= $\frac{9x}{16}$

Amount left at the end of 3rd year

= $\frac{1}{2} \times \frac{9x}{16} \times \frac{3}{2}$

= $\frac{27x}{64}$

ATQ,

$\frac{27x}{64} = 16875$

$\Rightarrow x = 40,000$

\therefore Required answer = $\frac{9}{16} \times 40,000$

= 22,500

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S11. Ans(e)

Sol. let the consecutive odd number be $2a+1, 2a+3, 2a+5, 2a+7, 2a+9$ where n is any natural number.

\therefore according to question $2a+1+2a+3+2a+5+2a+7+2a+9=425$

So $a=40$ so numbers = 81,83,85,87,89

If we arrange the number in descending order so 4th from right will be = 87

S12. Ans(c)

Sol. let the age of son and father 6 years ago be $2x$ and $17x$ respectively

So according to question

$$\frac{2x+10}{17x+10} = \frac{7}{22}$$

$$X=2$$

So age of father 6 years ago = $17x=34$ years

Present age = $34+6=40$ years

S13. Ans(d)

Sol. marks in maths = $\frac{80}{100} \times 200 = 160$

Marks in English = 120

Total marks = $\frac{70}{100} \times 600 = 420$

$\therefore 160 + 120 + X = 420$

$X=140$

S14. Ans (a)

Sol. Let the number is x .

ATQ

$$\frac{62.5}{100} \times x - \frac{4}{7} \times x = 48$$

$$\frac{5}{8}x - \frac{4}{7}x = 48$$

$$x = \frac{48 \times 56}{3} = 896$$

So, required no. = $896 \times \frac{25}{100} = 224$

S15. Ans (d)

Sol. Let four consecutive even no. a, b, c and d are $(x-2), x, (x+2)$ and $(x+4)$ respectively.

So, $x-2+x+2=168$

$$x = \frac{168}{2} = 84$$

So, required average = $\frac{82+84+86+88}{4} = 85$

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