



AVERAGE_CSAT_ANSWER_SOLUTION

Answer 1: (A)

Class starts at 11:00 am and class ends at 2:27 pm.

So, duration of class = 3 hour 27 mint = 207 mint.

There will be 4 periods

After every period there will be 5 mint break. Here only 3 breaks will be taken as there are only 4 periods

Hence, total duration of classes = $207 - 15 = 192$ mints.

Therefore, duration of each period = $192 \div 4$

= 48 mints

Hence, duration of each class is 48 minutes.

Answer 2: (B)

Let the number of student = N

each student give = Rs. N

Total collection = Number of student \times each student contribution

$$= N \times N = N^2$$

Now, one student's contribution is increased by 2

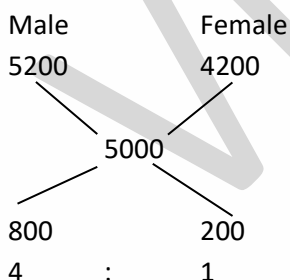
So, total collection = $N \times N + 2 = 443$

$$N^2 = 441$$

$$N = 21$$

Number of students = 21

Answer 3: (B)



Percentage of male employees in the company =

$$\frac{4}{5} \times 100$$

$$= 80\%$$

Answer 4: (B)

Present age of 5 members = $80 + 3 \times 5 = 95$

$$\text{Average age of 5 members 3 years ago} = \frac{80}{5}$$

$$= 16 \text{ years}$$

ATQ

Average of 6 members at present is same as average age of 5 members 3 years ago.

So sum of 6 member (including baby) at present = 16×6

$$= 96 \text{ years}$$

$$\text{Age of baby} = 96 - 95$$

$$= 1 \text{ year}$$

Age of baby is 1 year

Answer 5: (A)

Monthly salary of a person = $5 \times 10,000$

$$= 50,000$$

$$\text{Increase in salary of one person per month} = \frac{12000}{12}$$

$$= 10,000$$

Now, total salary = $50,000 + 10,000$

$$= 60,000$$

$$\text{Average salary of 5 persons} = \frac{60,000}{5}$$

$$= 12,000$$

Answer 6 (C)

Sum of the age of 9 persons = 9×50

$$= 450$$

Sum of the age of 5 persons = 5×45

$$= 225$$

Sum of the age of last 5 persons = 5×55

$$= 275$$

Weight of 5th person = $(275 + 225 - 450)$

$$= 50 \text{ kg}$$

Answer 7: (C)

Amount of rainfall in first 4 days

$$= 0.40 \times 4$$

$$= 1.6 \text{ inches}$$



Amount of rainfall in 6 days = 0.50×6

= 3 inches

Let rainfall in 5th and 6th day is $4x$ and $3x$ respectively.

ATQ.

$$1.6 + 4x + 3x = 3$$

$$7x = 3 - 1.6$$

$$7x = 1.4$$

$$x = 0.2 \text{ inches}$$

Rainfall in 5th day = $4x$

$$= 4 \times 0.2$$

$$= 0.8 \text{ inches}$$

Answer 8: (B)

Sum of marks of 100 students = 100×40

$$= 4000$$

Total correct marks = $4000 - 83 + 53$

$$= 3970$$

$$\text{Correct average} = \frac{3970}{100}$$

$$= 39.7$$

Answer 9: (D)

Sum of the weight of mother and children

$$= 50 \times 3 = 150$$

⇒ Sum of the weight of children and father = 52×3

$$= 156$$

⇒ Sum of the weight of children = $156 - 60$

$$= 96 \text{ kg}$$

⇒ Weight of mother $150 - 96 = 54 \text{ kg}$

Answer 10: (D)

Let the three pieces be a , b and c .

length of a = Average of three single digit odd prime numbers

$$\Rightarrow \frac{3+5+7}{3}$$

$$= 5$$

$$\text{Length of } b = a + \frac{c}{3}$$

$$b = \frac{3a+c}{3}$$

$$b = \frac{3 \times 5 + c}{3}$$

$$b = \frac{15+c}{3} \dots\dots\dots(i)$$

$$c = a+b \dots\dots\dots(ii)$$

From (i) & (ii)

$$b = \frac{15+a+b}{3}$$

$$3b = 20 + b$$

$$2b = 20$$

$$b = 10$$

$$c = a + b$$

$$c = 10 + 5$$

$$c = 15$$

Length of original sheet = $a+b+c$

$$= 5+10+15$$

$$= 30 \text{ units.}$$

Answer 11: (C)

Let the age of each student = x years

Age of teacher will be $(x+20)$ years

Mean age =

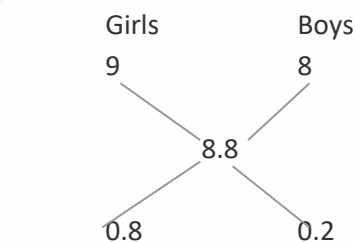
$$\frac{x+20+3x}{4}$$

$$20 = \frac{4x+20}{4}$$

$$x = 15$$

Age to teacher = 35 years

Answer 12: (A)



$$\frac{\text{Girls}}{\text{Boys}} = \frac{4}{1}$$

$$x = \frac{4 \times 8 + 1 \times 7}{4+1}$$

$$= \frac{39}{5}$$

$$= 7.8$$

Answer 13: (C)

Total score in 50 innings = 50×46.4

$$= 2320$$

Total score in 60 innings = 60×49

$$= 2940$$

Average score in last ten innings

$$= \frac{2940 - 2320}{10}$$

$$= \frac{620}{10}$$

$$= 62$$

Answer 14: (C)

According to the question.

No student going out of the class and no new student coming in the class.

Total student weight same all the time and total no of students same . They are just interchange the group.

Hence, average weight of the students of the class is same

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