

Quiz Date: 24th September 2020

Directions (1-6): Read the passage given below and answer the following questions. There are some data given by a college campus of total 150 students. 30 students like English, 50 students like Math and 40 students like Science. 5 students like both English and Math but not Science, 20 students like both Math and Science but not English and 10 students like both Science and English but not Math. 5 students like all three subjects. Rest of the students like none of three subjects.

Q1. Number of students who like only English is what percentage more than that of students who likes only Science?

- (a) 125%
- (b) 100%
- (c) 50%
- (d) 200%
- (e) 150%

Q2. Find out the ratio of number of students who like all the subjects to who don't like any subjects?

- (a) 1:6
- (b) 6:1
- (c) 1:15
- (d) 2:5
- (e) 1:3

Q3. Find out the total number of students who likes only two subjects?

- (a) 28
- (b) 15
- (c) 25
- (d) 45
- (e) 35

Q4. What is the ratio of number of students who don't like math to who like math as a subject?

- (a) 5:1
- (b) 2:1
- (c) 3:1
- (d) 1:2
- (e) 1:5

Q5. If students who like math increased by 20% when students who don't like any of three subjects starts liking math, then find out the total number of students who like math is what percentage of total students in the college?

- (a) 36%
- (b) 40%
- (c) 56%
- (d) 28%

(e) 60%

Q6. Find out the average number of students who like only math and who like Science?

- (a) 60
- (b) 50
- (c) 40
- (d) 30
- (e) 55

Directions (7-15): What value will come in place of (?) in the following questions ?

Q7. $3251 + 587 + 369 - ? = 3007$

- (a) 1250
- (b) 1300
- (c) 1375
- (d) 1400
- (e) 1200

Q8. $\frac{3}{20}$ of $\frac{8}{7}$ of 1715 = $\frac{?}{5}$ of 70

- (a) 24
- (b) 27
- (c) 42
- (d) 35
- (e) 21

Q9. 28% of 225 + 10.5% of 600 = ? + 12% of 150

- (a) 102
- (b) 108
- (c) 114
- (d) 118
- (e) 124

Q10. 14% of 250 \times ? % of 150 = 840

- (a) 15
- (b) 18
- (c) 16
- (d) 12
- (e) 8

Q11. $\frac{3}{5} \times \frac{15}{100} \times \frac{3276000}{18} = 5 \div ?$

- (a) $\frac{5}{3276}$
- (b) $\frac{1}{3276}$
- (c) $\frac{3}{4286}$

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(d) $\frac{1}{2516}$
 (e) $\frac{7}{3276}$

Q12. $\frac{13\% \text{ of } 5700}{15\% \text{ of } 8550} = ?$

- (a) $\frac{26}{45}$
 (b) $\frac{28}{45}$
 (c) $\frac{22}{45}$
 (d) $\frac{41}{45}$
 (e) $\frac{29}{45}$

Q13. $33 \times 5200 - 35 \times 2500 = ? \times \frac{50}{6}$

- (a) 10052
 (b) 14528
 (c) 12212
 (d) 10092
 (e) 10062

Q14. $(75 \times 2) + (90 \times 3) - 35 \times 3 \times 6 \div \frac{3}{5} = ? - 105 - 696 \times \frac{7}{3}$

- (a) 1099
 (b) 1199
 (c) 1000
 (d) 1212
 (e) 1089

Q15. $9999 + 999 + 99 + 9 = ? + 10000$

- (a) 1100
 (b) 1096
 (c) 1221
 (d) 1206
 (e) 1106

Solutions

Sol (1-6):

Number of Students who like only English = 10

Number of Students who like only Math = 20

Number of Students who like only Science = 5

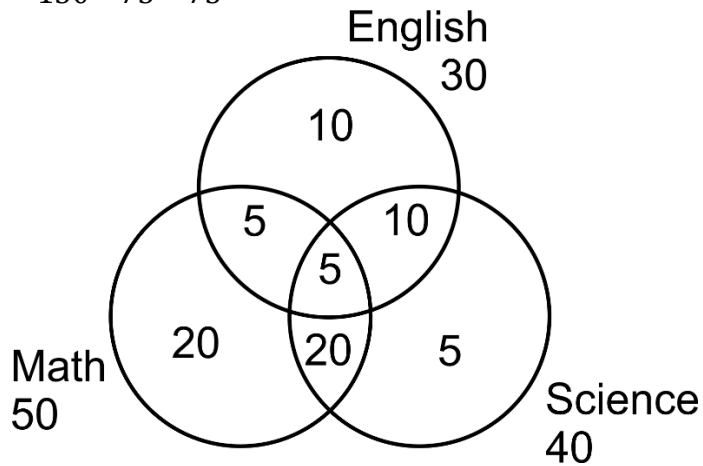
Number of students who like both English and Math but no Science = 5

Number of students who like both English and Science but not Math = 10

Number of students who like both Science and Math but not English = 20

Number of students who like all three subjects = 5

Number of students who don't like any subject = $150 - (10 + 20 + 5 + 10 + 20 + 5 + 5)$
 $= 150 - 75 = 75$



S1. Ans. (b)

Sol.

$$\text{Required percentage} = \frac{10-5}{5} \times 100 = 100\%$$

S2. Ans. (c)

Sol.

$$\begin{aligned} \text{Required ratio} &= 5 : 75 \\ &= 1 : 15 \end{aligned}$$

S3. Ans. (e)

Sol.

$$\text{Required no. of students} = 20 + 5 + 10 = 35$$

S4. Ans. (b)

Sol.

$$\begin{aligned} \text{Required ratio} &= (150 - 50) : 50 \\ &= 2 : 1 \end{aligned}$$

S5. Ans. (b)

Sol.

$$\text{Total number of students who like math as a subject} = 50 \times \frac{6}{5} = 60$$

$$\text{Required percentage} = \frac{60}{150} \times 100 = 40\%$$

S6. Ans. (d)

Sol.

$$\text{Required average} = \frac{20+40}{2} = \frac{60}{2} = 30$$

S7. Ans.(e)

$$\text{Sol. ?} = 4207 - 3007 = 1200$$

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S8. Ans.(e)

Sol.

$$\frac{?}{5} \times 70 = \frac{3}{20} \times \frac{8}{7} \times 1715$$

$$? \times 14 = 294$$

$$\Rightarrow ? = 21$$

S9. Ans.(b)

Sol.

$$? = \frac{28}{100} \times 225 + \frac{10.5}{100} \times 600 - \frac{12}{100} \times 150$$

$$= 63 + 63 - 18$$

$$= 108$$

S10. Ans. (c)

Sol. $? = \frac{840 \times 100}{150 \times 35} = 16$

S11. Ans.(b)

Sol.

$$? = \frac{5 \times 18 \times 500}{45 \times 3276000} = \frac{1}{3276}$$

S12. Ans.(a)

Sol.

$$? = \frac{13 \times 5700}{15 \times 8550} = \frac{26}{45}$$

S13. Ans.(d)

Sol.

$$? = \frac{600}{50} [1716 - 875]$$

$$= 841 \times \frac{600}{50} = 10092$$

S14. Ans.(a)

Sol.

$$150 + 270 - 105 \times 6 \times \frac{5}{3} = ? - 105 - 232 \times 7$$

$$\Rightarrow ? = 420 - 1050 + 105 + 1624$$

$$= 1099$$

S15. Ans.(e)

Sol. $? = 1106$

