Quiz Date: 27th September 2020

Directions (1-5): What will come in the place of question (?) mark:

Q1. 43% of 800 + 37% of 900 = ? + 47% of 500
(a) 470
(b) 442
(c) 390
(d) 290
(e) 350

Q2. $3\frac{2}{3} + 3\frac{1}{2} - 3\frac{2}{5} = ? - 4\frac{5}{6}$
(a) $5\frac{3}{4}$
(b) $6\frac{3}{5}$
(c) $5\frac{4}{5}$
(d) $7\frac{2}{5}$
(e) $8\frac{3}{5}$

Q3. 555 ÷ 500 + 9999 ÷ 9000 – 4444÷ 2200 =?
(a) 0.0211
(b) 0.111
(c) 0.211
(d) 0.201
(e) 0.011

Q4. 1246 + 3512 + 2418 – 4213 = ?
(a) 2697
(b) 2963
(c) 2863
(d) 2793
(e) 2527

Q5. $\frac{4}{3}$ of $\frac{15}{7}$ of $\frac{63}{12}$ of 96 = ?+90% of 1260
(a) 194
(b) 282
(c) 306
(d) 328
(e) 310

Q6. A shopkeeper gives three successive discounts of 20%, 10% and 10% on marked price of an article. If he sold the article in Rs. 486, then find the marked price of the article.
(a) Rs 900

(b) Rs 600
(c) Rs 450
(d) Rs 750
(e) Rs 600

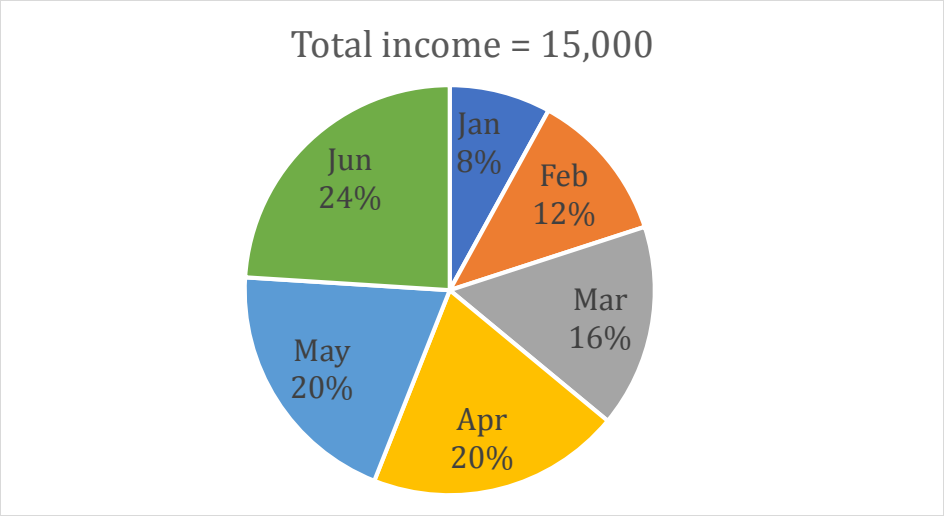
Q7. Aman purchased an old bike in Rs. 12500 and he spent Rs. 3500 on its maintenance. He sold his bike to Anurag at a profit of 12.5%. What will be the selling price of bike?
(a) Rs 20000
(b) Rs 15000
(c) Rs 16000
(d) Rs 18000
(e) Rs 22500

Q8. Ratio of A and B is 3:5, B and C is 4:7 and C:D is 2:3. What is A:D?
(a) 1:1
(b) 2:3
(c) 8:35
(d) 7:33
(e) 5:28

Q9. $\frac{2}{7}$ students who registered in an exam did not appeared. $\frac{3}{5}$ student who appeared in the exam failed in the exam. If 2450 students are registered in the survey find the number of students who passed the exam?
(a) 700
(b) 900
(c) 1200
(d) 850
(e) 750

Q10. Neeraj save 40% out of his total salary of Rs. 8000 and remaining spends on expenses. If his expenses increased by 25% then how much percentage increase in his salary should be done to keep the saving amount same as before.
(a) 12.5%
(b) 15%
(c) 17.5%
(d) 20%
(e) 25%

Directions (11-15): Pie-chart given below shows total income of Sandeep in six different months and percentage distribution in these months. Study the data carefully and answer the following questions.



Q11. Income of Sandeep in the month of Jan and April together is what percent less than income of Sandeep in the month of Mar and Jun together?
(a) 20%
(b) 30%
(c) 40%
(d) 50%
(e) 70%

Q12. Income of Sandeep in May and Jun together is how much more than the income of Sandeep in Feb and March together?
(a) 1500
(b) 1800
(c) 1200
(d) 2400
(e) 2700

Q13. Which month shows the highest percent increment in income as compare to previous month?
(a) Feb
(b) March
(c) April
(d) May
(e) Both (b) and (c)

Q14. Income in the month of March and April together makes how much central angle of the total?
(a) 115.2°
(b) 158.4°
(c) 144°
(d) 100.8°

(e) 129.6°

Q15. Sandeep's average income in starting four month in the given six months is how much less than Sandeep's average income in last four months in the given six months?
(a) 300
(b) 600
(c) 900
(d) 1200
(e) 1500

Solutions

S1. Ans.(b)
Sol.
? = 43 × 8 + 37 × 9 – 47 × 5
= 344 + 333 – 235
= 442

S2. Ans.(e)
Sol.
$? = (3+ 3 - 3 + 4) + \left(\frac{2}{3} + \frac{1}{2} - \frac{2}{5} + \frac{5}{6}\right)$
$= 7 + \frac{48}{30}$
$= 8\frac{3}{5}$

S3. Ans.(d)
Sol.
? = 1.11 + 1.111 – 2.02
= 0.201

S4. Ans.(b)
Sol.
? = 7176 – 4213 = 2963

S5. Ans.(c)
Sol.
$\frac{4}{3} \times \frac{15}{7} \times \frac{63}{12} \times 96 = \frac{90}{100} \times 1260 + ?$
$\Rightarrow ? = 1440 - 1134$
$\Rightarrow ? = 306$

S6. Ans. (d)
Sol.
Let marked price of article be Rs. 100x.
ATQ

$100x \times \frac{80}{100} \times \frac{90}{100} \times \frac{90}{100} = 486$
$64.8x = 486$
$100x = 750$
So, marked price $= Rs\ 750$

S7. Ans. (d)
Sol.
Selling price $= (12500 + 3500) \times \frac{112.5}{100}$
$= 16000 \times \frac{9}{8} = Rs\ 18000$

S8. Ans. (c)
Sol.
$\frac{A}{D} = \frac{A}{B} \times \frac{B}{C} \times \frac{C}{D}$
$\frac{A}{D} = \frac{3}{5} \times \frac{4}{7} \times \frac{2}{3}$
$\frac{A}{D} = \frac{8}{35}$

S9. Ans. (a)
Sol.
Required no. of students $= 2450 \times \frac{5}{7} \times \frac{2}{5}$
$= 700$

S10. Ans.(b)
Sol.
Let, Neeraj salary = 100
Neeraj's saving = 40
Now, Neeraj's expense $= (100 - 40) \times \frac{125}{100}$
$= 75$
Neeraj's new salary should be = 75 + 40 = 115
% increase in salary
$= \frac{115 - 100}{100} \times 100 = 15\%$

S11. Ans.(b)
Sol.
Required% $= \frac{16+24-8-20}{(16+24)} \times 100$
$= \frac{12}{40} \times 100$
$= 30\%$

S12. Ans.(d)
Sol.
Required difference

$= \frac{[20+24-12-16]}{100} \times 15000$
$= 2400$

S13. Ans.(a)
Sol.
It can be seen easily from the pie-chart that February month shows the highest percent increase in income as compare to previous month which is equal to
$= \frac{12-8}{8} \times 100$
$= \frac{4}{8} \times 100$
$= 50\%$ increment.

S14. Ans.(e)
Sol.
Required central angle
$= (20 + 16) \times \frac{18}{5}$
$= 129.6°$

S15. Ans.(c)
Sol.
Sandeep's average income in starting four months
$= \frac{(8+12+16+20)}{4\times100} \times 15000$
$= 2100$
Sandeep's average income in Last four months
$= \frac{(16+20+20+24)}{4\times100} \times 15000 = 3000$
Required difference = 3000 – 2100 = 900