Quiz Date: 24th August 2020

Q1. The daily work of 2 men is equal to that of 3 women or that of 4 youngsters. By employing 14 men, 12 women, and 12 youngsters a certain work can be finished in 24 days. If it is required to finish it in 14 days and as an additional labour, only men are available, how many of them will be required?
(a)18 men
(b)20 men
(c)48 men
(d)28 men
(e)24 men

Q2. Vineet calculates his profit percentage on the selling price whereas Roshan calculates his profit on the cost price. They find that the difference of their profits is Rs. 275. If the selling price of both of them are the same, and Vineet gets 25% profit and Roshan gets 15% profit, then find their selling price.
(a) Rs. 2350
(b) Rs. 2300
(c) Rs. 2100
(d) RS. 2250
(e) Rs. 2400

Q3. A finishes 6/7th of the work in 2z hours, B works twice as fast as A and finishes the remaining work. For how long did B work?

(a) $\left(\frac{2}{3}\right)z$

(b) $\left(\frac{6}{7}\right)z$

(c) $\left(\frac{6}{49}\right)z$

(d) $\left(\frac{3}{18}\right)z$

(e) $\left(\frac{7}{18}\right)z$

Q4. A shopkeeper gave an additional 25 per cent concession on the reduced price after giving 20 per cent standard concession on an article. If Arun bought that article for Rs.1200, what was the original price?
(a) Rs. 3000
(b) Rs. 2400
(c) Rs. 2600
(d) Rs. 2000
(e) Rs. 2500

Q5. A, B and C rent a pasture. A puts in 10 oxen for 7 months, B 12 oxen for 5 months and C 15 oxen for 3 months for grazing. If the rent of the pasture is Rs. 175, how much must C pay as his share of rent?
(a) Rs. 45
(b) Rs. 50
(c) Rs. 55
    (d) Rs. 60
(e) Rs. 65

Q6. If the ages of P and R are added to twice the age of Q, the total becomes 59. If the ages of Q and R are added to thrice the age of P, the total becomes 68 and if the age of P is added to thrice the age of Q and thrice the age of R, the total becomes 108. What is the age of P?
(a) 19 years
(b) 15 years
(c) 17 years
(d) 12 years
(e) None of these
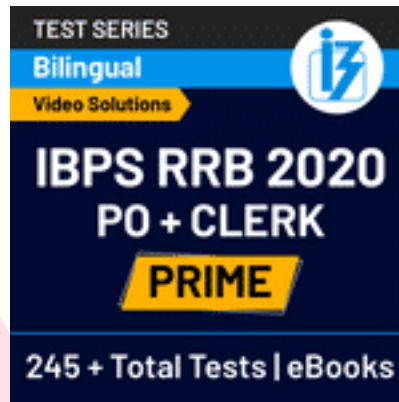
Q7. If 6 years are subtracted from the present age of Shyam and the remainder is divided by 18, then the present age of his grandson Anup is obtained. If Anup is 2 years younger to Mahesh whose age is 5 years, then what is the age of Shyam?
(a) 48 years
(b) 60 years
(c) 84 years
(d) 96 years
(e) None of these

Directions (8-9): **Read the passage below and solve the questions based on it.**

Alok has certain number of Orange. Shazmi bought 25% of the oranges and Sandeep bought one-third of remaining orange, Mohit bought 50% of remaining and Siddharth bought 4 oranges.

Q8. How many oranges did Sandeep purchase?
(a) 3
(b) 4

(c) 6
(d) 8
(e) 10

Q9. How many number oranges were with Alok initially ?
(a) 3
(b) 4
(c) 6
(d) 8
(e) 16

Q10. In Patna University, out of 7 students learning Science, 3 take literature as well. If 10% of the students take only Science, the percentage of students, who have taken Science is ?
(a) $17\frac{1}{2}\%$
(b) $23\frac{1}{3}\%$
(c) $7\frac{1}{2}\%$
(d) Cannot be determined
(e) None of these

Q11.   In how many different ways can the letters of the word 'DRASTIC' be arranged in such a way that the vowels always come together?
(a) 720
(b) 360
(c) 1440
(d) 540
(e) None of these

Q12. There are two bags, one of them contains 5 red and 7 white balls and the other 3 red and 12 white balls, and a ball is to be drawn from one or the other of the two bags. Find the chance of drawing a red ball.
(a) 37/120
(b) 30/120
(c) 11/120
(d) 29/120
(e) None of these

Q13. An amount of money is to be divided among P, Q and R in the ratio 4 : 9 : 16. If R gets 4 times more than P, what is Q's share in it?
(a) Rs. 1800
(b) Rs. 2700
(c) Rs. 3600
(d) Data inadequate

(e) None of these

Q14. The cost price of three varieties of apples namely A, B and C is Rs. 20/kg, Rs. 40/kg and Rs. 50/kg respectively. Find the selling price of one kg of apple in which these three varieties of apple are mixed in the ratio of 2 : 3 : 5 such that there is a net profit of 20%?
(a) Rs. 48
(b) Rs. 48.6
(c) Rs. 49.2
(d) Rs. 49.8
(e) Rs. 42.9

Q15. Two persons A and B start a business with investments of Rs 24000 and Rs 28000 respectively. After 4 months C also joines them with certain investment. Total profit at the end of the year was Rs 19950. C's share in profit was Rs 7600. What was the C's investment in the business?
(a) Rs 48000
(b) Rs 45000
(c) Rs 50000
(d) Rs 40000
(e) Rs 55000

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Solutions

S1. Ans.(b)
Sol.
Hence
$2M = 3W = 4Y$
$\therefore (14M + 12W + 12Y) = 14 + 8 + 6 = 28$ Men
Total Unit $= 28 \times 24$
$\therefore 28 \times 24 = x \times 24$
$x = 48$
Total no. of men required for additional labour
$= 48 - 28 = 20$ men

S2. Ans.(b)

Sol.

Let selling price = x

C.P. for Vineet = $\frac{(100-25)}{100} x = 0.75x$

C.P. for Roshan = $\frac{1}{1.15} x$

$[x - 0.75x] - [x - \frac{1}{1.15}x] = 275$

$x = 2300$

S3. Ans.(d)
Sol.
The whole work will be completed
by A in
$= 2z \times \frac{7}{6}$
$= \frac{7z}{3}$ hours
∴ time taken by B to complete the
remaining work
$= \frac{1}{7} \times \frac{7z}{6}$
$= \left(\frac{1}{6}\right) z$ hours

S4. Ans.(d)
Sol.

Original price $= 1200 \times \frac{100}{75} \times \frac{100}{80} = $ Rs. 2000

S5. Ans.(a)
Sol.
Ratio $= 10 \times 7 : 12 \times 5 : 15 \times 3$
$= 70 : 60 : 45$
$= 14 : 12 : 9$
∴ C's rent $= \frac{9}{35} \times 175$
$= 45$ Rs.

S6. Ans.(d)

Sol.
P + R + 2Q = 59 ....(i)
Q + R + 3P = 68 ....(ii)
P + 3Q + 3R = 108 ....(iii)
From 3 × (ii) − (iii)
P = 12 years

S7. Ans.(b)
Sol.
Let A = Anup's age
    M = Mahesh's age
     S = Shyam's age
$$\frac{S-6}{18} = A$$
Also, A = 3 years (∵ M = 5 years)
∴ S = 3 × 18 + 6 = 60 years

S8. Ans.(b)
Sol.
Let number of oranges with Alok = x
Shazmi bought $= \frac{1}{4}x$
Sandeep $= \frac{1}{3} \cdot \frac{3}{4}x = \frac{1}{4}x$
Siddharth bought $= \frac{1}{4}x$
$\frac{1}{4}x = 4$ and $x = 16$
Required answer $= \frac{16}{4} = 4$

S9. Ans.(e)
Sol.
Let number of oranges with Alok = x
Shazmi bought $= \frac{1}{4}x$
Sandeep $= \frac{1}{3} \cdot \frac{3}{4}x = \frac{1}{4}x$
Siddharth bought $= \frac{1}{4}x$
$\frac{1}{4}x = 4$ and $x = 16$
Required answer = 16

S10. Ans.(a)
Sol.

Number of students taking only Science = 4
Or, 10% of total students = 4
Or, total students = 40
Required percentage = $\frac{7}{40} \times 100 = 17.5\%$

S11. Ans.(c)
Sol.
Total letters = D, R, A, S, T, I, C (7)
Total vowels = A, I (2)
∴ Required no. of ways = 6! × 2!
= 1440

S12. Ans.(a)
Sol.
Bag 1 → 5R, 7W
Bag 2 → 3R, 12 W
Probability of getting one red ball
$= \left(\frac{5}{12} + \frac{3}{15}\right) \times \frac{1}{2}$
$= \frac{37}{120}$

S13. Ans.(d)
Sol.
Let total sum = Rs. T
∴ P's share $= \frac{4T}{29}$
Q,s share $= \frac{9T}{29}$
R,s share $= \frac{16T}{29}$
ATQ,
R's share = 4 × P's share
We don't know total sum. Hence,
cannot determine the answer.

S14. Ans.(c)
Sol.

Let total apples were 10x kg

∴ Quantity of A type apples = 2x kg

Quantity of B type apples = 3x kg

Quantity of C type of apples = 5x kg

∴ S. P. of 1 kg apple

$= \frac{1}{10x} \times (2x \times 20 + 3x \times 40 + 5x \times 50) \times \frac{120}{100}$

$= 49.2$

S15. Ans.(a)

Sol.

Let c's investment was Rs. x

(A's profit) : (B's profit) : (C's profit)

= (24,000 × 12) : (28,000 × 12) : x × 8

= 2,88,000 : 3,36,000 : 8x

∴ $\frac{8x}{2,88,000 + 3,36,000 + 8x} = \frac{7600}{19,950}$

⇒ 21x = 6,24,000 + 8x

⇒ x = 48,000 ⇒ x = Rs. 48,000

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