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Central Warehousing Corporation



CWC Asistant Aptitude Sample Paper



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(1) A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?

[A] Rs. 375

[B] Rs. 400

[C] Rs. 600

[D] Rs. 800

Answer : [B]

Explanation:

$$\text{C's 1 day's work} = \frac{1}{3} - \left(\frac{1}{6} + \frac{1}{8} \right) = \frac{1}{3} - \frac{7}{24} = \frac{1}{24}$$

$$\text{A's wages : B's wages : C's wages} = \frac{1}{6} : \frac{1}{8} : \frac{1}{24} = 4 : 3 : 1.$$

$$\therefore \text{C's share (for 3 days)} = \text{Rs.} \left(3 \times \frac{1}{24} \times 3200 \right) = \text{Rs.} 400.$$

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(2) A machine P can print one lakh books in 8 hours, machine Q can print the same number of books in 10 hours while machine R can print them in 12 hours. All the machines are started at 9 A.M. while machine P is closed at 11 A.M. and the remaining two machines complete work. Approximately at what time will the work (to print one lakh books) be finished ?

[A] 11:30 A.M.

[B] 12 noon

[C] 12:30 P.M.

[D] 1:00 P.M.

Answer : [D]

Explanation:

$$\text{(P + Q + R)'s 1 hour's work} = \left(\frac{1}{8} + \frac{1}{10} + \frac{1}{12} \right) = \frac{37}{120}$$

$$\text{Work done by P, Q and R in 2 hours} = \left(\frac{37}{120} \times 2 \right) = \frac{37}{60}$$

$$\text{Remaining work} = \left(1 - \frac{37}{60} \right) = \frac{23}{60}$$

$$\text{(Q + R)'s 1 hour's work} = \left(\frac{1}{10} + \frac{1}{12} \right) = \frac{11}{60}$$

Now, $\frac{11}{60}$ work is done by Q and R in 1 hour.

$$\text{So, } \frac{23}{60} \text{ work will be done by Q and R in } \left(\frac{60}{11} \times \frac{23}{60} \right) = \frac{23}{11} \text{ hours} \approx 2 \text{ hours.}$$

So, the work will be finished approximately 2 hours after 11 A.M., i.e., around 1 P.M.

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(3) A and B can together finish a work 30 days. They worked together for 20 days and then B left. After another 20 days, A finished the remaining work. In how many days A alone can finish the work?

[A] 40

[B] 50

[C] 54

[D] 60

Answer : [D]

Explanation:

$$\text{(A + B)'s 20 day's work} = \left(\frac{1}{30} \times 20 \right) = \frac{2}{3}$$

$$\text{Remaining work} = \left(1 - \frac{2}{3}\right) = \frac{1}{3}.$$

Now, $\frac{1}{3}$ work is done by A in 20 days.

Therefore, the whole work will be done by A in $(20 \times 3) = 60$ days.

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(4) A is 30% more efficient than B. How much time will they, working together, take to complete a job which A alone could have done in 23 days?

[A] 11 days

[B] 13 days

[C]

$20\frac{3}{17}$ days

[D] None of these

Answer : [B]

Explanation:

Ratio of times taken by A and B = $100 : 130 = 10 : 13$.

Suppose B takes x days to do the work.

$$\text{Then, } 10 : 13 :: 23 : x \Rightarrow x = \left(\frac{23 \times 13}{10}\right) \Rightarrow x = \frac{299}{10}.$$

$$\text{A's 1 day's work} = \frac{1}{23};$$

$$\text{B's 1 day's work} = \frac{10}{299}.$$

$$\text{(A + B)'s 1 day's work} = \left(\frac{1}{23} + \frac{10}{299}\right) = \frac{23}{299} = \frac{1}{13}.$$

Therefore, A and B together can complete the work in 13 days.

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(5) Twenty women can do a work in sixteen days. Sixteen men can complete the same work in fifteen days. What is the ratio between the capacity of a man and a woman?

[A] 3 : 4

[B] 4 : 3

[C] 5 : 3

[D] Data inadequate

Answer : [B]

Explanation:

(20×16) women can complete the work in 1 day.

$$\therefore 1 \text{ woman's 1 day's work} = \frac{1}{320}.$$

(16×15) men can complete the work in 1 day.

$$\therefore 1 \text{ man's 1 day's work} = \frac{1}{240}.$$

$$\text{So, required ratio} = \frac{1}{240} : \frac{1}{320}$$

$$= \frac{1}{3} : \frac{1}{4}$$

$$= 4 : 3 \text{ (cross multiplied)}$$

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(6) A batsman scored 110 runs which included 3 boundaries and 8 sixes. What percent of his total score did he make by running between the wickets?

[A] 45%

[B]
 $45\frac{5}{11}\%$

[C]
 $54\frac{6}{11}\%$

[D] 55%

Answer : [B]

Explanation:

Number of runs made by running = $110 - (3 \times 4 + 8 \times 6)$
 $= 110 - (60)$
 $= 50.$

\therefore Required percentage = $\left(\frac{50}{110} \times 100\right)\% = 45\frac{5}{11}\%$

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(7) Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:

[A] 39, 30

[B] 41, 32

[C] 42, 33

[D] 43, 34

Answer : [C]

Explanation:

Let their marks be $(x + 9)$ and x .

Then, $x + 9 = \frac{56}{100}(x + 9 + x)$

$\Rightarrow 25(x + 9) = 14(2x + 9)$

$\Rightarrow 3x = 99$

$\Rightarrow x = 33$

So, their marks are 42 and 33.

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(8) If 20% of $a = b$, then $b\%$ of 20 is the same as:

[A] 4% of a

[B] 5% of a

[C] 20% of a

[D] None of these

Answer : [A]

Explanation:

20% of $a = b \Rightarrow \frac{20}{100}a = b$.

$\therefore b\%$ of 20 = $\left(\frac{b}{100} \times 20\right) = \left(\frac{20}{100}a \times \frac{1}{100} \times 20\right) = \frac{4}{100}a = 4\%$ of a .

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(9) In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is $\frac{2}{3}$ of the number of students of 8 years of age which is 48. What is the total number of students in the school?

- [A] 72
 [B] 80
 [C] 120
 [D] 150
 [E] 100

Answer : [E]

Explanation:

Let the number of students be x . Then,
 Number of students above 8 years of age = $(100 - 20)\%$ of $x = 80\%$ of x .
 $\therefore 80\%$ of $x = 48 + \frac{2}{3}$ of 48

$$\Rightarrow \frac{80}{100}x = 80$$

$$\Rightarrow x = 100.$$

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(10) Rajevee buys good worth Rs. 6650. He gets a rebate of 6% on it. After getting the rebate, he pays sales tax @ 10%. Find the amount he will have to pay for the goods.

- [A] Rs. 6876.10
 [B] Rs. 6999.20
 [C] Rs. 6654
 [D] Rs. 7000

Answer : [A]

Explanation:

$$\text{Rebate} = 6\% \text{ of Rs. } 6650 = \text{Rs. } \left(\frac{6}{100} \times 6650 \right) = \text{Rs. } 399.$$

$$\text{Sales tax} = 10\% \text{ of Rs. } (6650 - 399) = \text{Rs. } \left(\frac{10}{100} \times 6251 \right) = \text{Rs. } 625.10$$

$$\therefore \text{Final amount} = \text{Rs. } (6251 + 625.10) = \text{Rs. } 6876.10$$

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(11) Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed?

- [A] 210
 [B] 1050
 [C] 25200
 [D] 21400
 [E] None of these

Answer : [C]

Explanation:

Number of ways of selecting (3 consonants out of 7) and (2 vowels out of 4)
 $= {}^7C_3 \times {}^4C_2$

$$= \left(\frac{7 \times 6 \times 5}{3 \times 2 \times 1} \times \frac{4 \times 3}{2 \times 1} \right)$$

$$= 210.$$

Number of groups, each having 3 consonants and 2 vowels = 210.

Each group contains 5 letters.

Number of ways of arranging 5 letters among themselves = $5!$

$$= 5 \times 4 \times 3 \times 2 \times 1$$

$$= 120.$$

∴ Required number of ways = $(210 \times 120) = 25200$.

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(12) In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?

[A] 360

[B] 480

[C] 720

[D] 5040

[E] None of these

Answer : [C]

Explanation:

The word 'LEADING' has 7 different letters.

When the vowels EAI are always together, they can be supposed to form one letter.

Then, we have to arrange the letters LNDG (EAI).

Now, 5 ($4 + 1 = 5$) letters can be arranged in $5! = 120$ ways.

The vowels (EAI) can be arranged among themselves in $3! = 6$ ways.

∴ Required number of ways = $(120 \times 6) = 720$.

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(13) In how many different ways can the letters of the word 'DETAIL' be arranged in such a way that the vowels occupy only the odd positions?

[A] 32

[B] 48

[C] 36

[D] 60

[E] 120

Answer : [C]

Explanation:

There are 6 letters in the given word, out of which there are 3 vowels and 3 consonants.

Let us mark these positions as under:

(1) (2) (3) (4) (5) (6)

Now, 3 vowels can be placed at any of the three places out of 4, marked 1, 3, 5.

Number of ways of arranging the vowels = ${}^3P_3 = 3! = 6$.

Also, the 3 consonants can be arranged at the remaining 3 positions.

Number of ways of these arrangements = ${}^3P_3 = 3! = 6$.

Total number of ways = $(6 \times 6) = 36$.

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(14) In how many ways a committee, consisting of 5 men and 6 women can be formed from 8 men and 10 women?

[A] 266

[B] 5040

[C] 11760

[D] 86400

[E] None of these

Answer : [C]

Explanation:

Required number of ways = $({}^8C_5 \times {}^{10}C_6)$

$$= ({}^8C_3 \times {}^{10}C_4)$$

$$= \left(\frac{8 \times 7 \times 6}{3 \times 2 \times 1} \times \frac{10 \times 9 \times 8 \times 7}{4 \times 3 \times 2 \times 1} \right)$$

$$= 11760.$$

(15) In how many different ways can the letters of the word 'OPTICAL' be arranged so that the vowels always come together?

[A] 120

[B] 720

[C] 4320

[D] 2160

[E] None of these

Answer : [B]

Explanation:

The word 'OPTICAL' contains 7 different letters.

When the vowels OIA are always together, they can be supposed to form one letter.

Then, we have to arrange the letters PTCL (OIA).

Now, 5 letters can be arranged in $5! = 120$ ways.

The vowels (OIA) can be arranged among themselves in $3! = 6$ ways.

∴ Required number of ways = $(120 \times 6) = 720$.

(16) An error 2% in excess is made while measuring the side of a square. The percentage of error in the calculated area of the square is:

[A] 2%

[B] 2.02%

[C] 4%

[D] 4.04%

Answer : [D]

Explanation:

100 cm is read as 102 cm.

∴ $A_1 = (100 \times 100) \text{ cm}^2$ and $A_2 (102 \times 102) \text{ cm}^2$.

$$(A_2 - A_1) = [(102)^2 - (100)^2]$$

$$= (102 + 100) \times (102 - 100)$$

$$= 404 \text{ cm}^2.$$

$$\therefore \text{Percentage error} = \left(\frac{404}{100 \times 100} \times 100 \right) \% = 4.04\%$$

(17) The percentage increase in the area of a rectangle, if each of its sides is increased by 20% is:

[A] 40%

[B] 42%

[C] 44%

[D] 46%

Answer : [C]

Explanation:

Let original length = x metres and original breadth = y metres.

Original area = $(xy) \text{ m}^2$.

$$\text{New length} = \left(\frac{120}{100}x \right) \text{ m} = \left(\frac{6}{5}x \right) \text{ m}.$$

$$\text{New breadth} = \left(\frac{120}{100}y \right) \text{ m} = \left(\frac{6}{5}y \right) \text{ m}.$$

$$\text{New Area} = \left(\frac{x}{5} \times \frac{y}{5} \right)_{\text{m}^2} = \left(\frac{xy}{25} \right)_{\text{m}^2}.$$

The difference between the original area = xy and new-area $36/25 xy$ is
 $= (36/25)xy - xy$
 $= xy(36/25 - 1)$
 $= xy(11/25)$ or $(11/25)xy$
 $\therefore \text{Increase \%} = \left(\frac{11}{25}xy \times \frac{1}{xy} \times 100 \right)_{\%} = 44\%.$

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(18) A towel, when bleached, was found to have lost 20% of its length and 10% of its breadth. The percentage of decrease in area is:

- [A] 10%
- [B] 10.08%
- [C] 20%
- [D] 28%

Answer : [D]

Explanation:

Let original length = x and original breadth = y .

$$\begin{aligned} \text{Decrease in area} &= xy - \left(\frac{80}{100}x \times \frac{90}{100}y \right) \\ &= \left(xy - \frac{18}{25}xy \right) \\ &= \frac{7}{25}xy. \end{aligned}$$

$$\therefore \text{Decrease \%} = \left(\frac{7}{25}xy \times \frac{1}{xy} \times 100 \right)_{\%} = 28\%.$$

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(19) The length of a rectangular plot is 20 metres more than its breadth. If the cost of fencing the plot @ 26.50 per metre is Rs. 5300, what is the length of the plot in metres?

- [A] 40
- [B] 50
- [C] 120
- [D] Data inadequate
- [E] None of these

Answer : [E]

Explanation:

Let breadth = x metres.

Then, length = $(x + 20)$ metres.

$$\text{Perimeter} = \left(\frac{5300}{26.50} \right) \text{ m} = 200 \text{ m}.$$

$$\begin{aligned} \therefore 2[(x + 20) + x] &= 200 \\ \Rightarrow 2x + 20 &= 100 \\ \Rightarrow 2x &= 80 \\ \Rightarrow x &= 40. \end{aligned}$$

Hence, length = $x + 20 = 60$ m.

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(20) A rectangular field is to be fenced on three sides leaving a side of 20 feet uncovered. If the area of the field is 680 sq. feet, how many feet of fencing will be required?

- [A] 34

[B] 40

[C] 68

[D] 88

Answer : [D]

Explanation:

We have: $l = 20$ ft and $lb = 680$ sq. ft.

So, $b = 34$ ft.

\therefore Length of fencing $= (l + 2b) = (20 + 68)$ ft $= 88$ ft.