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Percentage Test Questions for IBPS CLERK (Mains), IBPS RRB OFFICE ASST. (Mains), IBPS RRB SCALE -I (Mains) Exams.

Percentage Quiz 17

Directions : Read the following questions carefully and choose the right answer.

1. **A total of 15,300 spectators visit a stadium to watch a match. The ratio of males to females in the spectators is 19 : 15 and the price of the ticket for each female is 25% less than that for each male. If the cost of all the tickets sold is Rs. 1,11,62,250, what is the price of the ticket for each male?**

A. Rs. 820 B. Rs. 615 C. Rs. 840 D. Rs. 640 E. None of these

2. **The ratio of the number of members in club A and B is x : y. In club A and B, 60% and 50% of the members respectively are male and the difference between the number of females is 9.09% of the total number of members in A and B together. What is the value of 5x + 3y? (Females in B > Females in A)**

A. 43 B. 24 C. 32 D. 16 E. 54

3. **A goes to a showroom to buy a fridge whose basic price is Rs. 83,990. The customers also need to pay an additional 25% as taxes over the basic price. He asks the shopkeeper to reduce the price of the fridge to such an extent that he has to pay just Rs. 83,990 in all. Find the percentage reduction needed in the basic price of the fridge.**

A. 16.67 B. 20 C. 25 D. 33.33 E. Can't be determined

4. **A person distributes his money among his 8 children. 10% of the total amount he gives to his eldest son A. A spends 40% of his amount and saves Rs. 36,000. The man gives 7.50% of his total amount to his youngest son B. If B spends 60% of his amount, how much money does he save?**

A. Rs. 12,500 B. Rs. 16,000 C. Rs. 18,000 D. Rs. 18,333.33 E. None of these

5. **On a particular day in a company, the number of present employees was 40% more than the number of absent employees and among the present employees 40% were females. If 210 males employees were present on that day, what is the number of total employees in the company?**

A. 600 B. 560 C. 720 D. 400 E. None of these

6. **Prateek got aggregate 76% marks in an exam which had four subjects namely Mathematics, Physics, Chemistry and Biology. He gets 86% marks in Mathematics, 64% in Physics, 72% in Chemistry. If each subject has equal maximum marks, find how many marks he got out of 125 in Biology.**

A. 82 B. 99.5 C. 102.5 D. 111.25 E. 116.25

7. **A and B are two numbers such that B is 60% more than A. A is reduced by 12.5% then increased by 50% and then reduced by 28.57% while B is reduced to its 75% then increased by 37.5% and then reduced by 55%. The difference between the final values of A and B is 78, what is the sum of original value of A and B?**

A. 1240 B. 960 C. 1040 D. 1480 E. 840

8. **In a company 62.5% employees are males and rest are females. 55% of male employees are married and 30% of females are unmarried. If the difference between the number of unmarried females and males is 135, what is the total number of married employees in the company?**

A. 525 B. 485 C. 625 D. 465 E. 420

9. **In a company 2/7 of the employees are female and rest are males. 37.5% of the female employees work in night shift and rest work in Day shift. If 25% male employees work in Night shift what is the total percentage of employees working in day shift?**

A. 67.5% B. 71.42% C. 68.66% D. 75% E. 83.33%

10. **In a class 37.5% of the students are boys and rest are girls. 16.67% of boys and 11.11% of the girls are absent. If a total number of 95 students are absent, what is the difference between the number of boys and girls present?**

A. 145 B. 175 C. 165 D. 150 E. 215

Correct Answers:

1	2	3	4	5	6	7	8	9	10
A	A	B	C	A	C	C	B	B	B

Explanation:

1. Let the price of the ticket for each male = 4x,

the price of the ticket for each female = 3x

Total males = $\frac{15,300 \times 19}{19 + 15}$ = 8,550

Total females = 15,300 – 8,550 = 6,750

8,550 × 4x + 6,750 × 3x = 1,11,62,250

x = 205

4x = 4 × 205 = 820

Hence, Option A is correct.

2. Let the number of members be A and B

Difference between the number of females = 50%(B) – 40%(A)

$50\%(B) - 40\%(A) = \frac{1}{11}(A + B)$

$\frac{A}{B} = \frac{5}{6}$

x = 5 and y = 6

5x + 3y = 5 × 5 + 3 × 6 = 43

Hence, Option A is correct.

3. Basic price : Price with taxes = 100 : 125 = 4 : 5

Let,

Basic price = 100 units

Now the shopkeeper sold the fridge for 100 units, which is the price with taxes.

Basic price would be = $\frac{100 \times 4}{5}$ = 80 units

So reduction in the basic price

= $\frac{(100 - 80)}{100} \times 100\% = 20\%$

Hence, Option B is correct.

4. A spends = 40%

A saves = 100% – 40% = 60%

Total money he gave to A

= $\frac{36{,}000 \times 100}{60}$ = Rs. 60,000

10% of total amount = 60,000

Total amount = 60,000 × 10 = 6,00,000

The man gives to his youngest son B = 7.50% of 6,00,000 = 45,000

B spends = 60%

B saves = 100 – 60% = 40%

So the answer = 40% of 45,000 = Rs. 18,000

Hence, Option C is correct.

5. Let absent employees = 100 units

Present employees = 140 units

Total employees = 100 + 140 = 240 units

Present male employees = 100% – 40% = 60%

60% of 140 units = 210

240 units = $\frac{210 \times 100}{60 \times 140} \times 240 = 600$

Hence, Option A is correct.

6. Let the maximum mark which is 125 is 100y, then

Total marks = 76% of 400y = 304y

Marks in Maths = 86y

Marks in Physics = 64y

Marks in Chemistry = 72y

Marks in Biology = 304y – (86y + 64y + 72y) = 82y

Since y = $\frac{125}{100} = 1.25$

Marks in Biology = 82 × 1.25 = 102.5

Hence, option C is correct.

7. Let A = 10k so B = 16k

New A = $10k \times \frac{7}{8} \times \frac{3}{2} \times \frac{5}{7} = \frac{75k}{8}$

New B = $16k \times \frac{3}{4} \times \frac{11}{8} \times \frac{45}{100} = \frac{297k}{100}$

$\frac{75k}{8} - \frac{297k}{40} = 78$

$\frac{39k}{20} = 78$

k = 40

Value of A = 10 × 40 = 400, B = 16 × 40 = 640

A + B = 640 + 400 = 1040

Hence, option C is correct.

8. Let the total number of employees be 160k

Males = $\frac{5}{8} \times 160k = 100k$ and Females = 60k

Married Males = 55% (100k) = 55k

Unmarried Males = 45k

Unmarried Females = 30% (60k) = 18k

Married females = 42k

45k – 18k = 135

27k = 135

k = 5

Total Married employees = 55k + 42k = 97k

97 × 5 = 485

Hence, option B is correct.

9. Let the total employees = 56k

Female = $\frac{2}{7} \times 56 = 16k$, Male = 40k

Female employees working in night shift

$= \frac{3}{8} \times 16k = 6k$

Female employees working in Day shift = 10k

Male employees working in night shift

$= \frac{1}{4} \times 40k = 10k$

Male employees working in day shift

$= \frac{3}{4} \times 40 = 30k$

Total employees working in day shift = 30k + 10k = 40k

Percentage of employees working in day shift

$= \frac{40k}{56k} \times 100 = 71.42\%$

Hence, option B is correct.

10. Let the number of students be 144k

Boys = $\frac{3}{8} \times 144k = 54k$,

Girls = $\frac{5}{8} \times 144k = 90k$

Absent Boys = $\frac{1}{6} \times 54 = 9k$

Girls = $\frac{1}{9} \times 90k = 10k$

$(10k + 9k) = 95$

$k = 5$

Present Boys = 45k and Girls = 80k

Required difference = $80k - 45k = 35k = 35 \times 5 = 175$

Hence, option B is correct.