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**Q1.**  $14\%$  of  $250 \times ?\%$  of  $150 = 840$

- a) 12
- b) 18
- c) 15
- d) 16
- e) None of these

**Q2.** In a college election between two candidates, one candidate got  $55\%$  of the total valid votes.  $15\%$  of the votes were invalid. If the total votes were  $15,200$ , what is the number of valid votes the other candidate got ?

- a) 6840
- b) 7106
- c) 8360
- d) 5814
- e) None of these

**Q3.** An HR Company employs  $4800$  people, out of which  $45\%$  percent are males and  $60\%$  percent of the males are either  $25$  years or older. How many males are employed in that HR Company who are younger than  $25$  years ?

- a) 2160

- b) 2640
- c) 1296
- d) 864
- e) None of these

**Q4.** In a hostel the rent per room is increased by 20%. If number of rooms in the hostel is also increased by 20% and the hostel is always full, then what is the percentage change in the total collection at the cash counter ?

- a) 40%
- b) 30%
- c) 44%
- d) 48%

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**Q5.** Twenty five percent of Pranab's annual salary is equal to eighty percent of Surya's annual salary. Surya's monthly salary is forty percent of Dheeru's monthly salary. If Dheeru's annual salary is Rs. 6 lacs, what is Pranab's monthly salary ? (At some places annual income and in some place monthly income is given.)

- a) Rs. 56,000
- b) Rs. 8.4 lacs
- c) Rs. 7.68 lacs

d) Rs. 64,000

e) None of these

**Q6.** A sum of Rs. 4558 is divided among A, B and C such that A receives 20% more than C, and C receives 25% less than B. What is A's share in the amount ?

a) Rs. 1720

b) Rs. 1290

c) Rs. 1548

d) Rs. 1345

**Q7.** Akash scored 73 marks in subject A. He scored 56% marks in subject B and X marks in subject C. Maximum marks in each subject were 150. The overall percentage marks obtained by Akash in all the three subjects together were 54%. How many marks did he score in subject C?

a) 86

b) 84

c) 79

d) 73

e) None of these

**Q8.** The digit at unit place of a two-digit number is increased by 100% and the digit at ten places of the same number is increased by 50%. The new number thus formed is 19 more than the original number. What is the original number?

a) 63

b) 22

c) 24

d) None of these

**Q9.** What is the number whose 20% is 30% of 40?

a) 80

b) 90

c) 60

d) 50

**Q10.** 5% of income of A is equal to 15% of income of B and 10% of income of B is equal to 20% of income of C. If C's income is Rs. 2000, then the total income of A, B and C is :

a) Rs. 14,000

b) Rs. 6000

c) Rs. 18,000

d) Rs. 20,000

**Q11.** In an election of 3 candidates A, B and C, A gets 50% more votes than B. A also beats C by 1,80,00 votes. If it is known that B gets 5 percentage more votes than C, find the number of voters on the voting list (given 90% of the voters on the voting list voted and no votes were illegal)

a) 81,000

b) 72,000

c) 90,000

d) 1,00,000

**Q12.** There were two candidates in an election. 10% of the voters did not vote. 60 votes were declared invalid. The elected candidate got 308 votes more than his opponent. If the elected candidate got 47% of the total votes, how many votes did each candidate get?

- a) 2914 and 2606
- b) 2629 and 2324
- c) 2316 and 2012
- d) 2871 and 2575
- e) None of these

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**Q13.** The income of A is 150% of the income of B and the income of C is 120% of the income of A. If the total income of A, B and C together is Rs. 86000, what is C's income ?

- a) Rs. 32000
- b) Rs. 30000
- c) Rs. 20000
- d) Rs. 36000

**Q14.**  $40\% \text{ of } 265 + 35\% \text{ of } 180 = 50\% \text{ of } ?$

- a) 169
- b) 84.5

- c) 338
- d) 253.5
- e) None of these

**Q15.** Sumitra has an average of 56% on her first 7 examinations. How much should she make on her eighth examination to obtain an average of 60% on 8 examinations?

- a) 78%
- b) 88%
- c) 98%
- d) Cannot be determined

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### Answers to the above questions :

**Q1. Answer: (d)**

$$14\% \text{ of } 250 \times ? \% \text{ of } 150 = 840$$

$$250 \times \frac{14}{100} \times \frac{150 \times ?}{100} = 840$$

$$35 \times 1.5 \times ? = 840$$

$$? = \frac{840}{35 \times 15}$$

$$? = 16$$

**Q2. Answer: (d)**

$$\text{Total valid votes} = 85\% \text{ of } 15200 = 12920$$

$\therefore$  Number of valid votes to other candidate

$$= 45\% \text{ of } 12920 = 5814$$

**Q3. Answer: (d)**

$$\text{Required number} = 4800 \times \frac{45}{100} \times \frac{40}{100} = 864$$

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**Q4. Answer: (c)**

Let initial rent be Rs. 100 and initial rooms be 100

So initial collection =  $100 \times 100 = \text{Rs.}10000$

Now new rent =  $100 \times 20\% = 120$

New no of rooms =  $100 \times 20\% = 120$

So new collection =  $120 \times 120 = 14400$

% change in collection

$$= \frac{(14400 - 10000)}{10000} \times 100$$

$$= \frac{4400}{10000} \times 100 = 44\%$$

**Q5. Answer: (d)**

$$\text{Dhreeu's monthly salary} = \frac{600000}{12} = \text{Rs. } 50000$$

$$\text{Surya's monthly salary} = 50000 \times \frac{40}{100} = \text{Rs. } 20000$$

$$\text{Pranab's monthly salary} = 20000 \times \frac{80}{25} = \text{Rs. } 64000$$

**Q6. Answer: (c)**

Let B get Rs.  $x$ .

$$\text{Then C gets} = 75\% \text{ of } x = \frac{3x}{4}$$

$$\text{and A gets} = 120\% \text{ of } \frac{3x}{4} = \frac{120}{100} \times \frac{3x}{4} = \frac{9x}{10}$$

$$\text{Now, } \frac{9x}{10} + \frac{3x}{4} + x = 4558$$

$$\Rightarrow \frac{53x}{20} = 4558 \Rightarrow x = \frac{4558 \times 20}{53} = 1720$$

$$\text{Hence, A's share} = \frac{9x}{10} = \text{Rs. } \frac{9 \times 1720}{10} = \text{Rs. } 1548$$

**Q7. Answer: (a)**

Marks scored in subject B

$$= 150 \times 56\% = 84$$

Total marks scored in all the 3 subjects

$$= (150 \times 3) \times 54\% = 243$$

Marks scored in subject C

$$= 243 - 73 - 84 = 86$$



**Q8. Answer: (d)**

Working with options, we have

	Original number	New number	Difference
a	22	34	12
b	63	96	33
c	24	38	14

Obviously, (d) is the correct option.

**Q9. Answer: (c)**

Let the number be  $x$

According to question  $20\%$  of  $x = 30\%$  of  $40$

$$\frac{x \times 20}{100} = \frac{40 \times 30}{100}$$

$$x = \frac{40 \times 30}{20} = 60$$

**Q10. Answer: (c)**

$$\frac{5}{100}A = \frac{15}{100}B \text{ and } \frac{10}{100}B = \frac{20}{100}C \Rightarrow A = 3B \text{ and}$$

$$B = 2C = 2 \times 2000 = 4000.$$

$$\therefore A = 3 \times 4000 = 12000.$$

$$\text{Hence, } A + B + C = (12000 + 4000 + 2000) = 18000.$$

**Q11. Answer: (d)**

The only values that fit this situation are C 25%, B 30%, and A 45%.

These are the percentage of votes polled.

(Note: these values can be got either through trial and error or through solving  $c + c + 5 + 1.5(c + 5) = 100\%$ )

Then, 20% is 18000 (the difference between A & C.)

Hence, 90000 people must have voted and 100000 people must have been on the voter's list.

**Q12. Answer: (a)**

Only option (d) has difference of 308 and only 2914 is divisible by 47.

**Q13. Answer: (d)**

Suppose Income of B = Rs.  $x$

$$\text{Income of A} = \frac{150}{100} \times x = \text{Rs. } \frac{3x}{2}$$

$$\text{Income of C} = \frac{120}{100} \times \frac{3x}{2}$$

$$\frac{6}{5} \times \frac{3x}{2} = \frac{9x}{5}$$

$$x + \frac{3x}{2} + \frac{9x}{5} = 86000$$

$$\frac{10x + 15x + 18x}{10} = 86000$$

$$43x = 860000$$

$$x = 20000$$

$$\text{So, income of C} = \frac{9}{5} \times 20000 = \text{Rs. } 36000$$

**Q14. Answer: (c)**

40% of 265 + 35% of 180 = 50% of ?

$$\Rightarrow 265 \times 0.4 + 180 \times 0.35 = ? \times 0.5$$

$$\Rightarrow 106 + 63 = ? \times 0.5$$

$$\Rightarrow ? = \frac{169}{0.5} = 338$$

**Q15. Answer: (d)**

Since the weightage of eighth examination is not known, hence can not be determined.