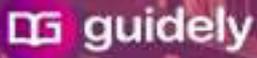


Ratio & Proportion – Set 1 (Eng)



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Ratio & Proportion – Set 1 (Eng)

1. The average of the boys and girls in the class is 45 and the ratio of the boys to girls in the class is 5: 4. If 10 boys left from the class and 16 girls joined the class, then now what is the ratio of the number of boys to girls in the class?

- A.5: 7
- B.4: 5
- C.7: 9
- D.11: 13
- E. None of these

2. The ratio of the number of male population in villages A and B is 10:9 and the ratio of the number of male to female population in A is 4:5. If the number of female population in B is 1100 more than the number of female population in A and the difference between the number of male population in A and B is 200, then find the number of female population in B?

- A.3200
- B.3600
- C.3400
- D.3500
- E.3300

3. Total number of students in the class is 40 and the ratio of the number of boys to girls in the class is 3:2. Each of them likes Maths or Physics. 25% of the girls like Maths and 30% of total students like Maths in the class. Find the number of boys like Maths?

- A.12
- B.15
- C.10
- D.6
- E. None of these

4. A's income is 120% of B's income and C's income is 80% of A's income. If the average income of A, B and C is Rs.3950, what is C's income?

- A.Rs.3200
- B.Rs.3400
- C.Rs.3600
- D.Rs.3800
- E. None of these

5. The ratio of milk to water in a solution is 2: 1. After adding 15 litres of water to the solution, then the ratio of milk to water interchanges. Then how much milk does the solution contain initially?

- A.15 litres
- B.10 litres
- C.13 litres
- D.16 litres
- E. None of these

6. The ratio of the income of A and B is 5: 4 and the expenditure of A and B in the ratio of 6: 5. If the savings of A and B is Rs.8000 and Rs.5000 respectively, what is the difference between the income of A and B?

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- A.Rs.20000
- B.Rs.15000
- C.Rs.18000
- D.Rs.12000
- E. None of these

7. In a group of lions and doves, the number of legs is 30 more than twice the number of heads. How many lions are in the group?

- A.15
- B.10
- C.8
- D.12
- E.11

8. The ratio of weight of A, B, C and D is 7: 11: 6: 4. If their average weight is 84 kg, find the sum of weight of A and C.

- A.105 kg
- B.77 kg
- C.91 kg
- D.119 kg
- E. None of these

9. Two numbers are in the ratio of $2\frac{2}{3}$: $3\frac{1}{2}$. If each of the number is increased by 5, then the ratio becomes 17: 22. Find the smallest number?

- A.100
- B.80
- C.90
- D.120
- E. None of these

10. A manager planned to give a bonus to 3 workers (P, Q and R). The total amount of bonus is Rs. 7500. 4 times of P's bonus is equal to 5 times of Q's bonus and 3 times of Q's bonus is equal to 2 times of R's bonus. Find the bonus got of Q?

- A.Rs. 3200
- B.Rs. 2800
- C.Rs. 2400
- D.Rs. 3500
- E. None of these

11. If the ratio of the number of balls from box A and B is 3: 2 and the ratio of the number of red balls from A and B is 4: 5. If the boxes have two different color balls red and yellow and the difference between the number of balls from A and B is 10, then what is the ratio of the number of yellow balls from A to B?

- A.3:4
- B.3:2
- C.4:3
- D. Cannot be determined
- E. None of these

12. A, B and C together have Rs. 23400. If $\frac{4}{15}$ th of A's amount is equal to $\frac{2}{5}$ th of B's amount and $\frac{5}{8}$ th of B's amount is equal to $\frac{9}{16}$ th of C's amount, then how much amount does C have?

- A.Rs. 13800
- B.Rs. 12500

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- C.Rs. 11000
- D.Rs. 7200
- E. None of these

13. A box contains the coins of 20 paise, 50 paise and 1 rupee is in the ratio of 5: 6: 8. If there is totally Rs. 24, then find the total number of 50 paise coins?

- A.10
- B.24
- C.12
- D.18
- E. None of these

14. Two numbers are in the ratio of 4: 5. If the first number is doubled, while second number is increased by 60, then the new ratio is 2: 5. Find the sum of the two numbers initially.

- A.42
- B.36
- C.84
- D.58
- E. None of these

15. 40% of the students in the class scored the mark in below 80 and the ratio of the number of students scored above 80 to exactly 80 marks in 3:4. If the number of students scored the marks exactly 80 is 12, then find the total number of students in the class?

- A.40
- B.45
- C.35
- D.30
- E.50

ANSWER WITH EXPLANATION

1. Answer: A

Total students in the class = $45 * 2 = 90$

Number of boys = $5/9 * 90 = 50$

Number of girls = $4/9 * 90 = 40$

Current number of boys in the class = $50 - 10 = 40$

Girls = $40 + 16 = 56$

Required ratio = $40: 56 = 5: 7$

2. Answer: B

Number of male population in A = $10/1 * 200 = 2000$

Number of female population in A = $5/4 * 2000 = 2500$

Number of female population in B = $2500 + 1100 = 3600$

3. Answer: E

Number of girls = $2/5 * 40 = 16$

Number of students like Maths = $30/100 * 40 = 12$

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Number of girls like Maths = $25/100 * 16 = 4$

Number of boys like Maths = $12 - 4 = 8$

4. Answer: C

$A = 120/100 * B$

$A/B = 6/5$

$C = 80/100 * A$

$C/A = 4/5$

$A:B:C = 30:25:24$

$A + B + C = 3950 * 3 = 11850$

$C's\ income = 24/79 * 11850 = 3600$

5. Answer: B

The ratio of milk to water in a solution = 2: 1(2x, x)

According to the question,

$2x / (x+ 15) = (1/2)$

$x + 15 = 4x$

$3x = 15$

$x = 5$

Initially, Milk = $2x = 10$ litres

6. Answer: E

The ratio of the income of A and B = 5: 4 (5x, 4x)

$(5x - 8000)/(4x - 5000) = 6/5$

$24x - 30000 = 25x - 40000$

$x = 10000$

Difference = $5 * 10000 - 4 * 10000 = 10000$

7. Answer: A

Let the number of lions be x and number of doves be y.

Then $4x + 2y = 2(x + y) + 30$

$\Rightarrow 2x = 30$

$\Rightarrow x = 15$

8. Answer: E

The ratio of weight = 7: 11: 6: 4 (7x, 11x, 6x, 4x)

Average weight = 84 kg

$\Rightarrow (7x + 11x + 6x + 4x)/4 = 84$

$\Rightarrow 28x/4 = 84$

$\Rightarrow x = 12$

Required sum = $(7 * 12) + (6 * 12) = 156$ kg

9. Answer: B

Two numbers are in the ratio = $(2 (2/3): 3 (1/2))$

$= > (8/3: 7/2) = 16: 21 (16x, 21x)$

Given,

$(16x + 5)/(21x + 5) = (17/22)$

$352x + 110 = 357x + 85$

$5x = 25$

$x = 5$

The smallest number = $16x = 80$

10. Answer: E

The total amount of bonus = Rs. 7500

$4 * P = 5 * Q$

$(P / Q) = (5 / 4)$

$3 * Q = 2 * R$

$(Q / R) = (2 / 3)$

The ratio of P, Q and R = 5: 4: 6

15's = 7500

1's = 500

The share of Q = Rs. 2000

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11. Answer: D

$$3x - 2x = 10$$

$$x = 10$$

$$\text{Number of balls from A} = 3 * 10 = 30$$

$$\text{Number of balls from B} = 2 * 10 = 20$$

We cannot find the answer.

12. Answer: D

$$A + B + C = \text{Rs. } 23400$$

$$(4/15) * A = (2/5) * B$$

$$(A/B) = (2/5) * (15/4) = 3/2$$

$$(5/8) * B = (9/16) * C$$

$$(B/C) = (9/16) * (8/5) = 9/10$$

$$\text{The ratio of A, B and C} = 27 : 18 : 20$$

$$65\text{'s} = 23400$$

$$1\text{'s} = 360$$

$$C\text{'s amount} = 20\text{'s} = \text{Rs. } 7200$$

13. Answer: C

A box contains the coins of 20p, 50p and 1 rupee
is in the ratio = 5: 6: 8 (5x, 6x, 8x)

$$24 = [(5x * 20) / 100] + [(6x * 50) / 100] + [(8x * 1)]$$

$$24 = (100x/100) + (300x/100) + 8x$$

$$24 = x + 3x + 8x$$

$$24 = 12x$$

$$x = 2$$

$$\text{The total number of 50p coins} = 6x = 12$$

14. Answer: B

Let the number be 4x and 5x.

According to question,

$$(4x * 2)/(5x + 60) = 2/5$$

$$40x = 10x + 120$$

$$30x = 120$$

$$x = 4$$

$$\text{Required sum} = 4 * 4 + 5 * 4 = 36.$$

15. Answer: C

$$\text{Number of students scored above 80} = 3/4 * 12 = 9$$

40% of the students scored below 80, so 60% of the students scored above 80 and exactly 80 marks.

$$\text{Number of students scored below 80} = 40/60 * (9 + 12) = 14$$

$$\text{Total number of students} = 14 + 9 + 12 = 35$$

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