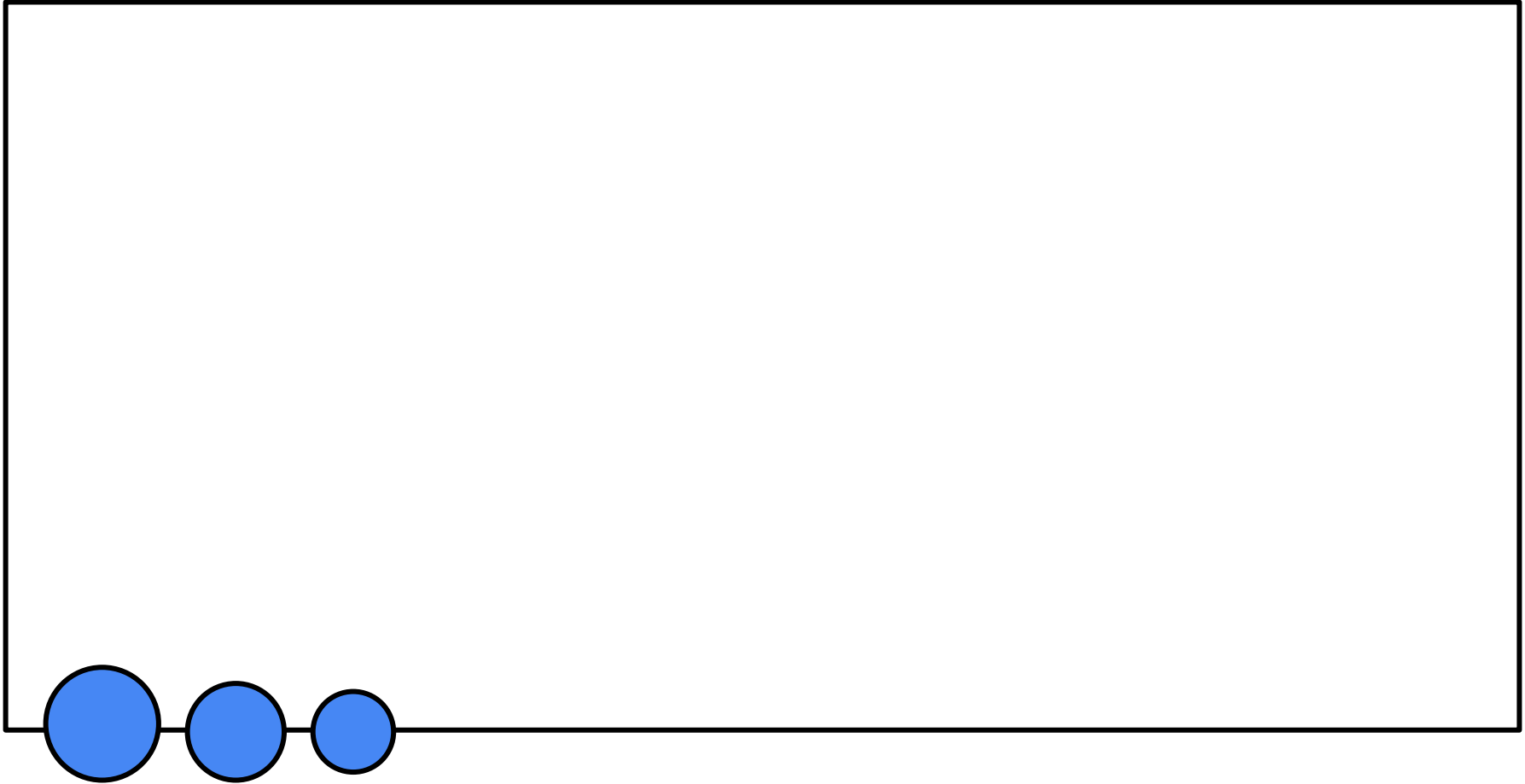




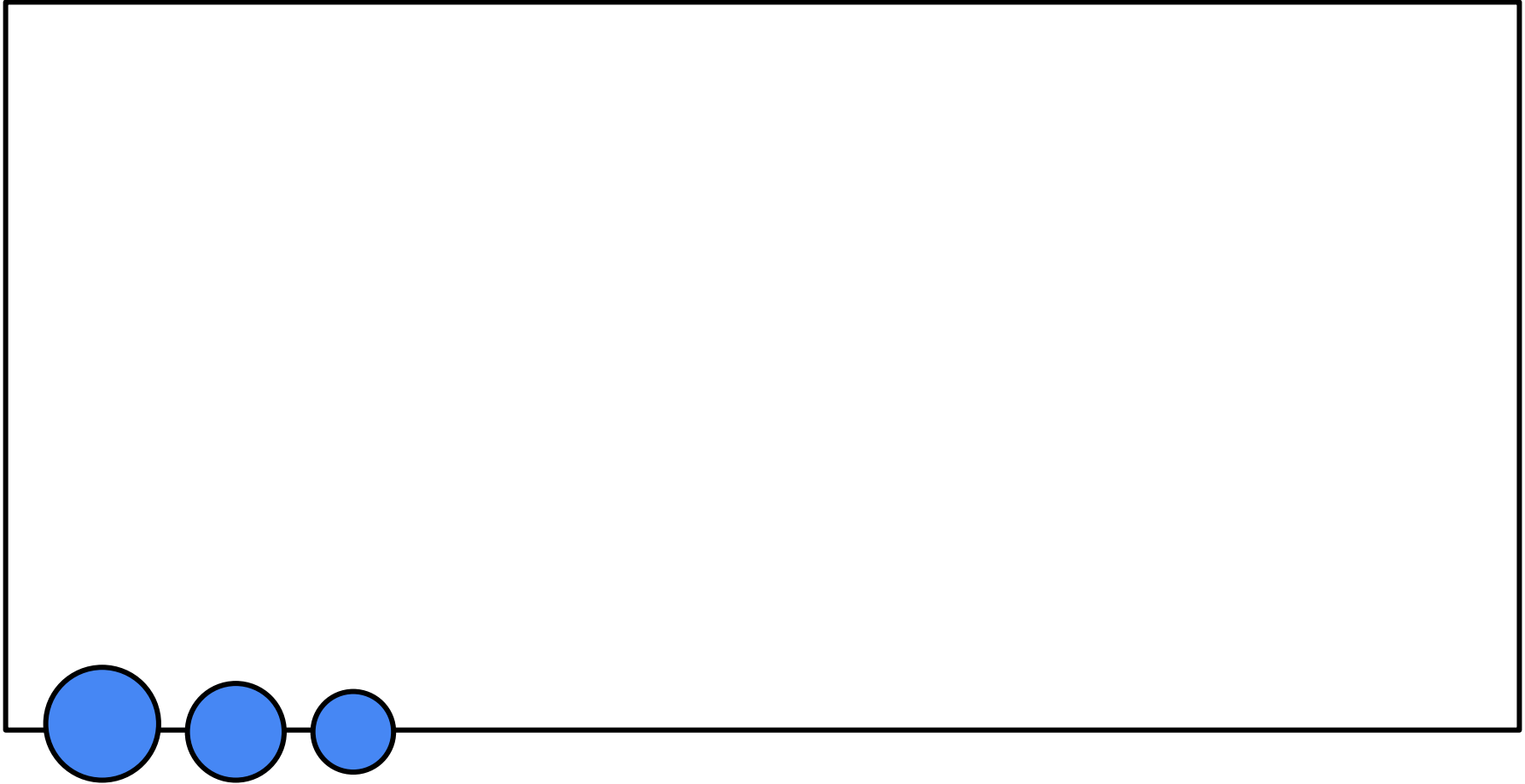
RATIO & PROPORTION



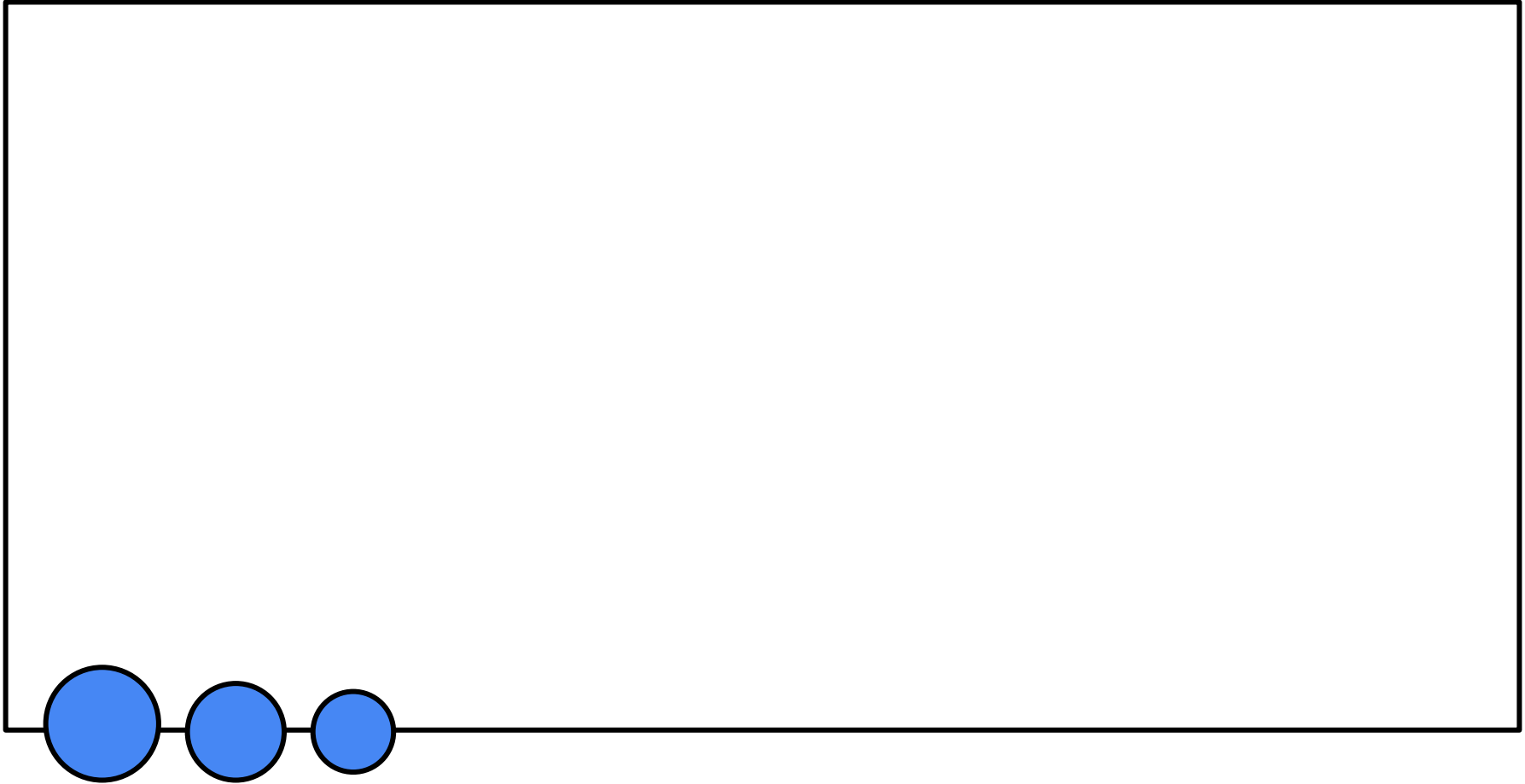
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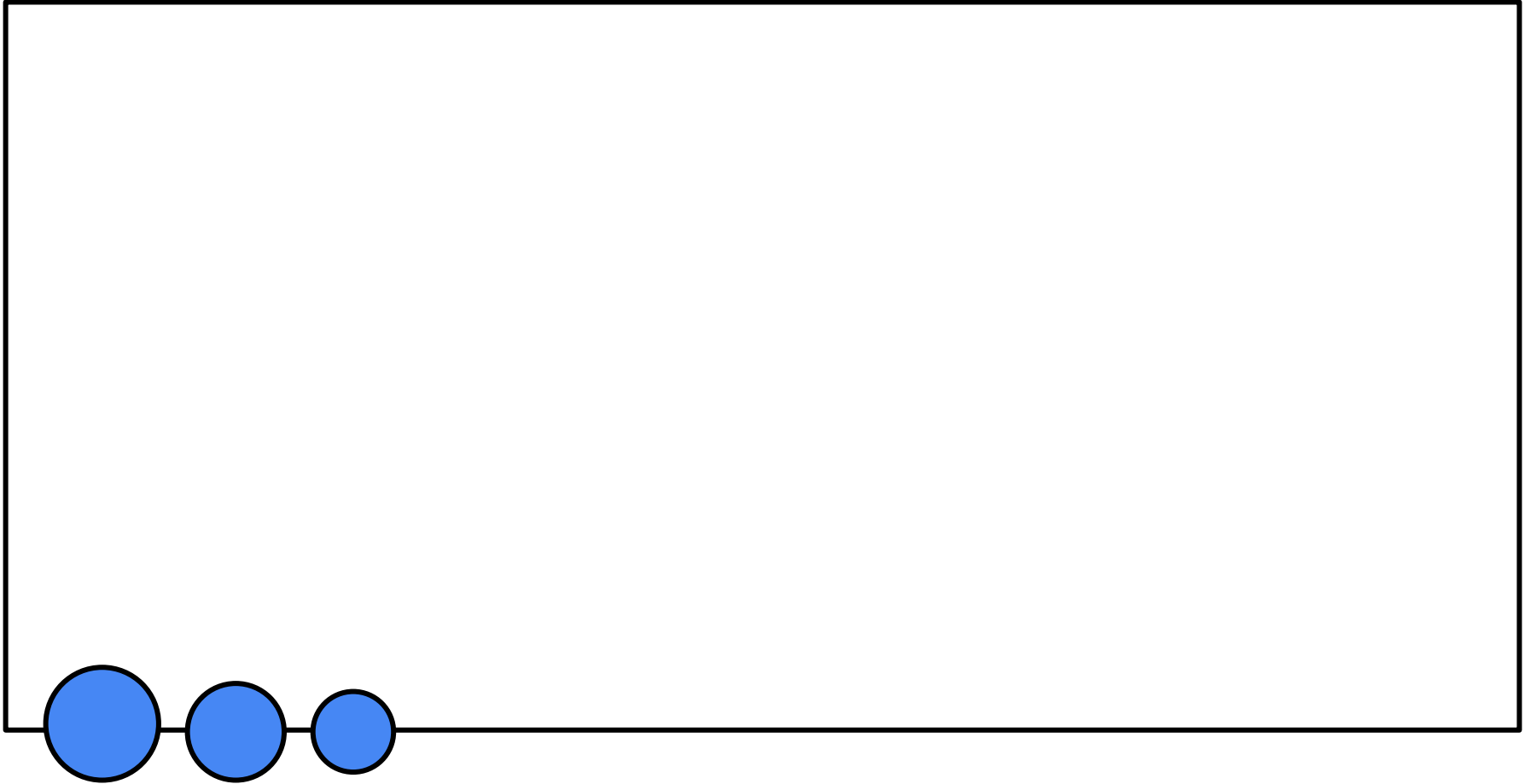
RATIO & PROPORTION



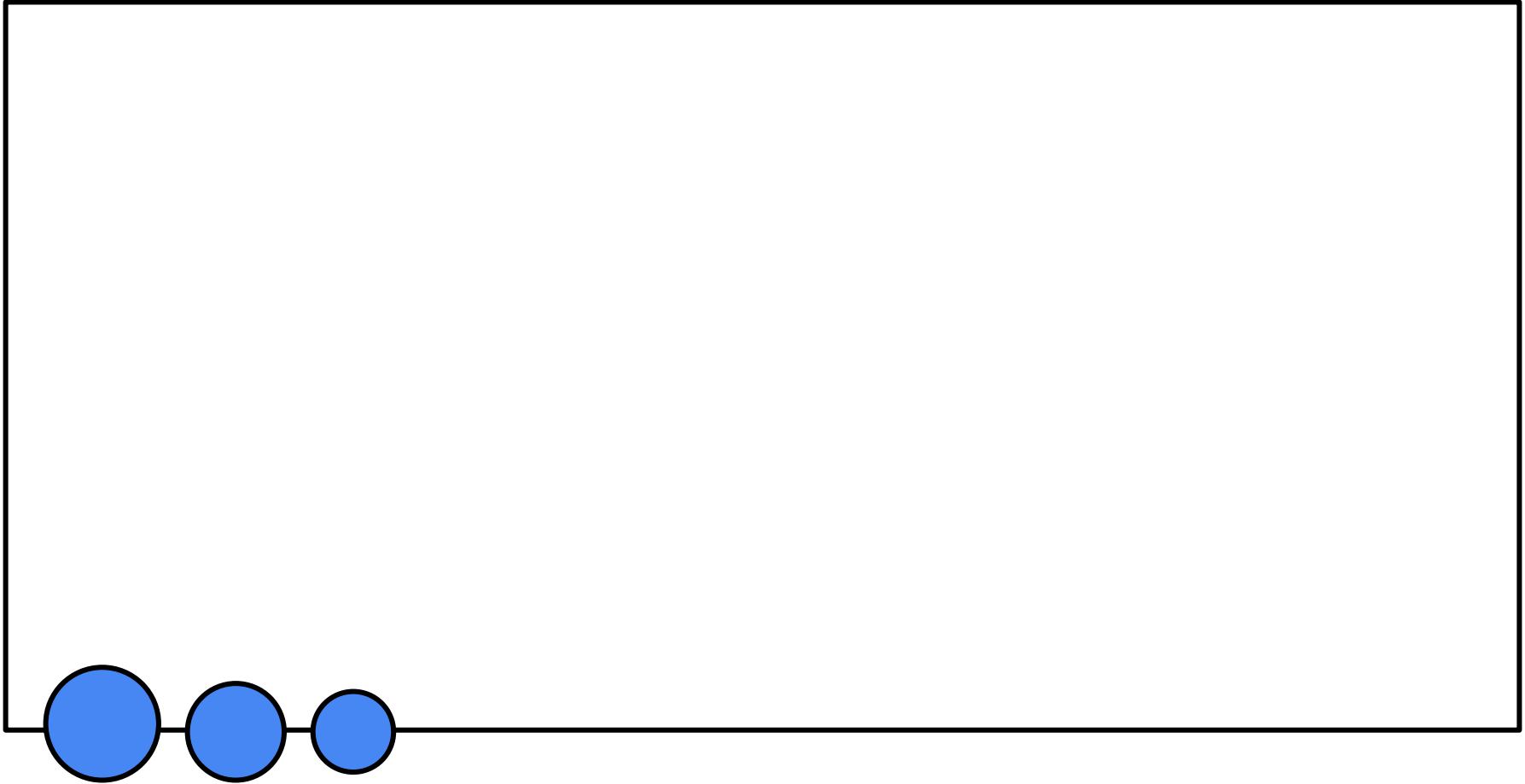
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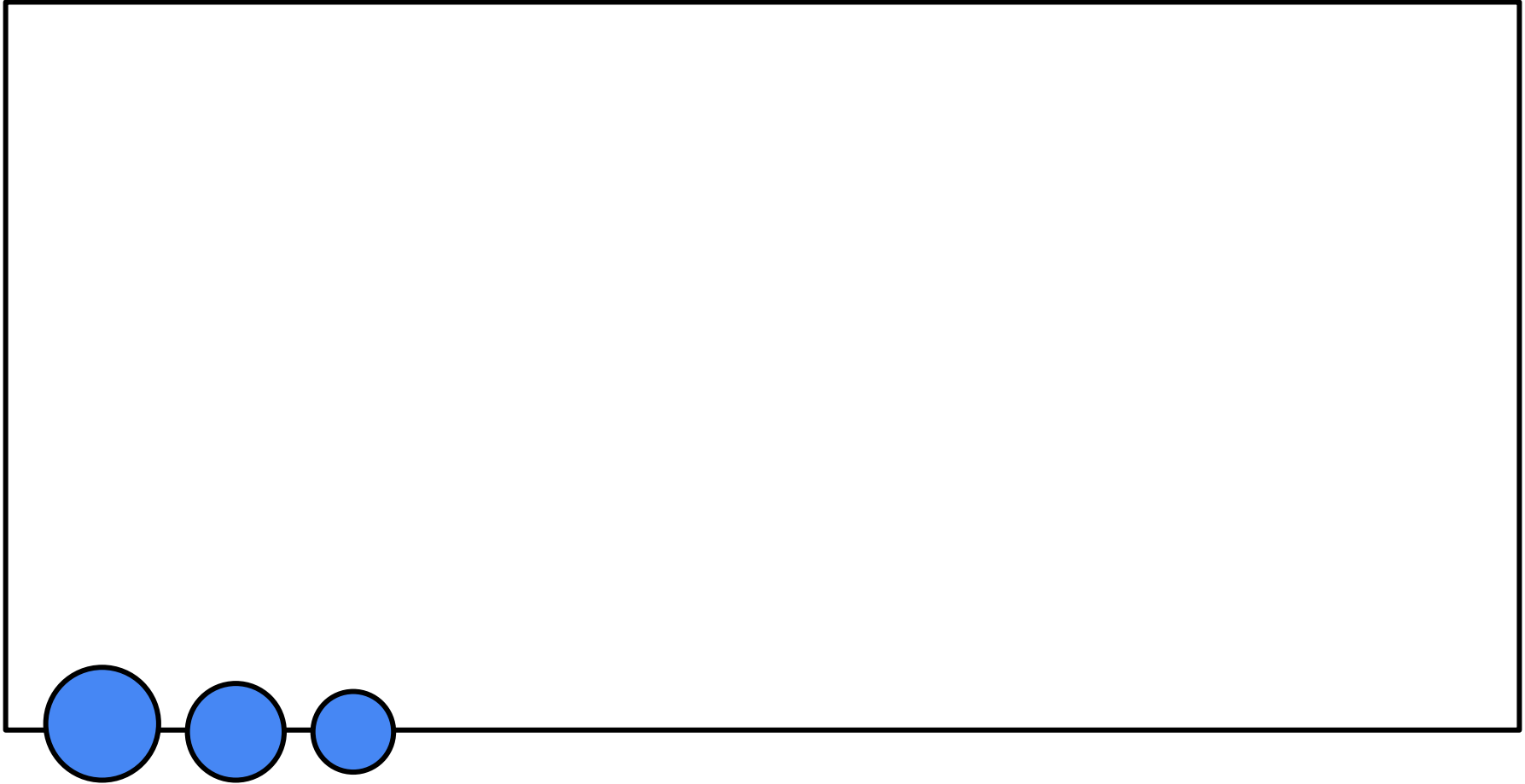
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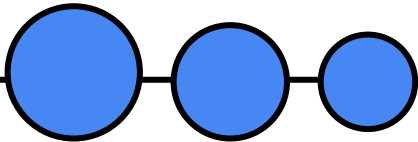


RATIO & PROPORTION





Class Questions



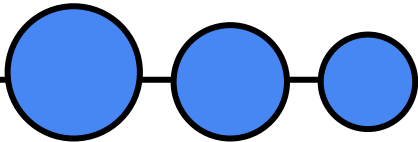
A and B together have Rs. 1,210. If $(4/15)$ th of A's amount is equal to $(2/5)$ th of B's amount, how much amount does B have?

A. Rs. 460

B. Rs. 484

C. Rs. 550

D. Rs. 664



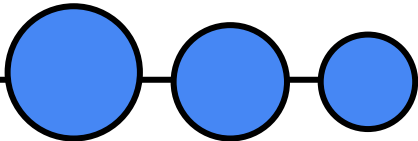
Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is:

A. 2:5

B. 3:5

C. 4:5

D. 6:7



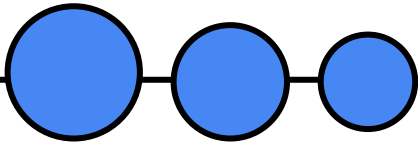
A sum of money is to be distributed among A, B, C, D in the proportion of 5:2:4:3. If C gets Rs. 1,000 more than D, what is B's share?

A. Rs. 500

B. Rs. 1500

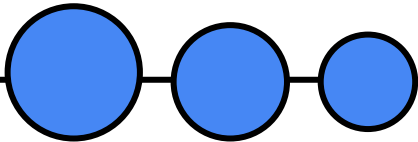
C. Rs. 2,000

D. None of these



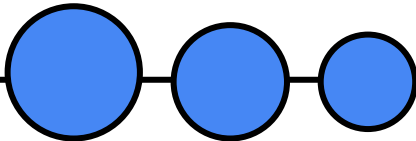
In a mixture 60 litres, the ratio of milk and water 2:1. If this ratio is to be 1:2, then the quantity of water to be further added is:

- A. 20L B. 30L C. 40L D. 60L



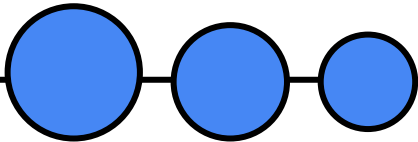
The ratio of the number of boys and girls in a college is 7:8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio?

- A. 8:9 B. 17:18 C. 21:22 D. Cannot be determined



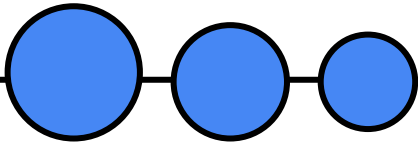
Salaries of Ravi and Sumit are in the ratio 2:3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40:57. What is Sumit's salary?

A. Rs. 17,000 B. Rs. 20,000 C. Rs. 25,500 D. Rs. 38,000



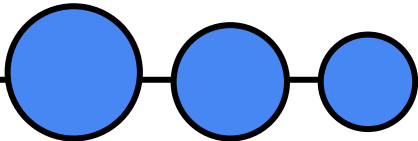
The salaries A, B, C are in the ratio 2:3:5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be new ratio of their salaries?

A. 3:3:10 B. 10:11:20 C. 23:33:60 D. Cannot be determined



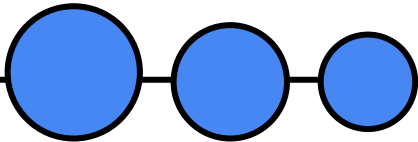
If 40% of a number is equal to two-third of another number, what is the ratio of first number to the second number?

- A. 2:5 B. 3:7 C. 5:3 D. 7:3



In a bag, there are coins of 25p, 10p and 5p in the ratio of 1:2:3. If there is Rs. 30 in all, how many 5p coins are there?

A. 50 B. 100 C. 150 D. 200



Vessels A and B contain mixtures of milk and water in the ratios 4:5 and 5:1 respectively. In what ratio should quantities of the mixture be taken from A and B to form a mixture in which milk to water is in the ratio 5:4?

- A. 2:5 B. 4:3 C. 5:2 D. 2:3





Monthly incomes of X and Y are in the ratio 1:3 and their expenses are in the ratio 19:40. X saves Rs. 18, 860 less than that Y and in total they save Rs. 36, 020. Income of X and Y respectively are:

- A. Rs. 10,480 and Rs. 31440 B. Rs. 9,000 and Rs. 27,000 C. Rs. 14,200 and Rs. 42,600
D. Rs. 18,000 and Rs. 31,440





The ratio of the first class fare and second class fare is 3:1 and that of the number of passengers traveling by the first class and by the second class is 1:27. If Rs. 2,700 is collected as fare, then the amount collected from the first class passengers is?

A. Rs. 300

B. Rs. 729

C. Rs. 270

D. Rs. 96.42



The ratio of the present ages of Chinta and Mani is 14:19. The average age of Suknaya, Chinta and Mani is 43 years. If the ratio of present age of Suknaya to that of Chinta is 5:7, find the present age (in years) of Mani?

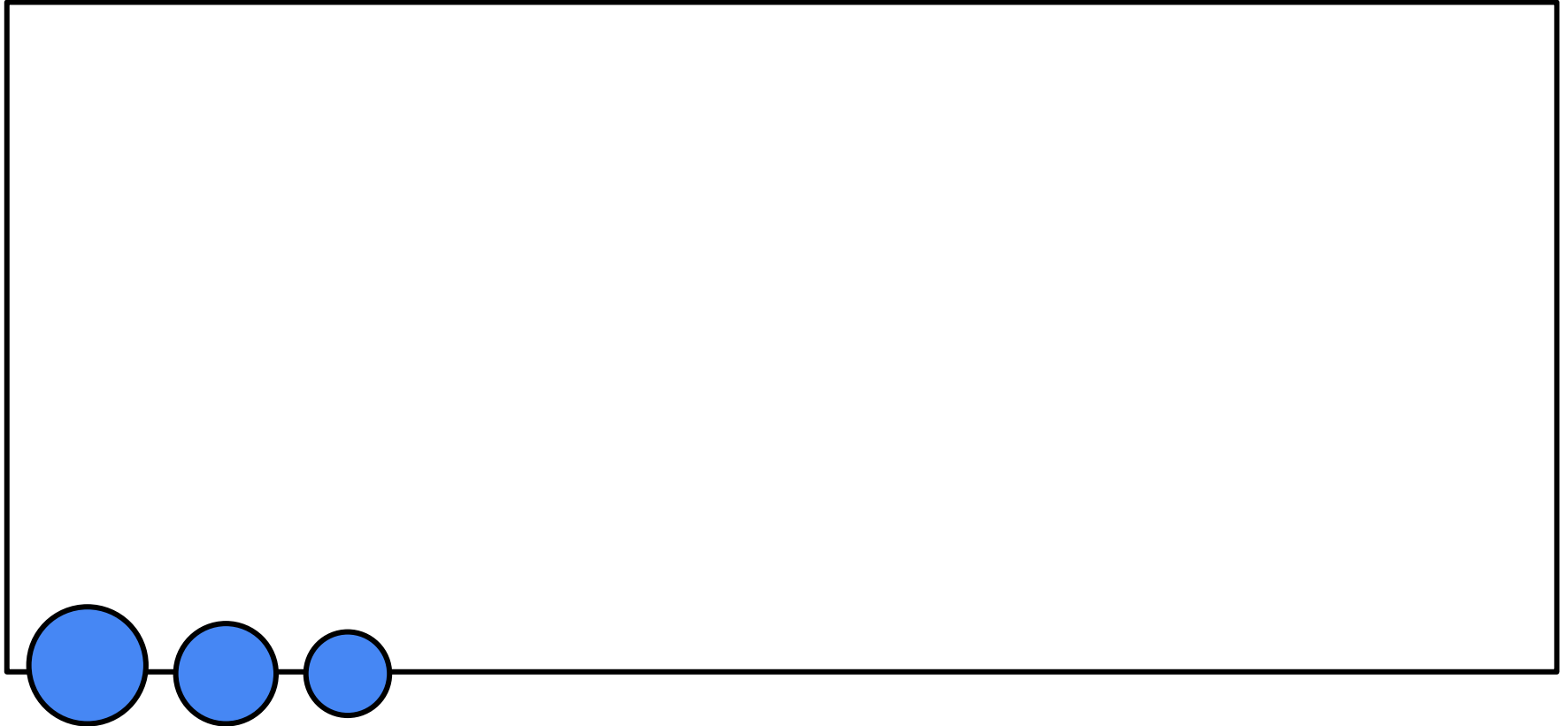
- A. 28 B. 42 C. 57 D. 56



The ratio of number of chocolates with Munni and Chameli is 3:2. If Chameli has 5 chocolates less than Sheela who has three more chocolates than Munni, find the total number of chocolates with three of them?



- A. 19 B. 20 C. 23 D. 24



In an organization, ratio of the number of males to that of the females is 4:3. If the number of males is increased by 10% and that of females by 20%. What is the new ratio of the number of males to that of females?

A. 11:9

B. 10:9

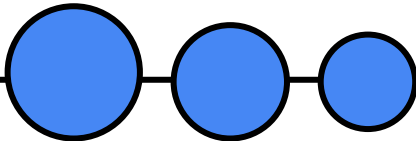
C. 11:8

D. 3:2



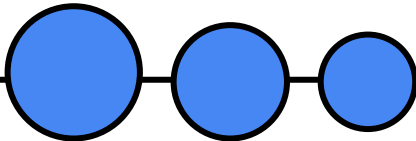


Assignment Questions



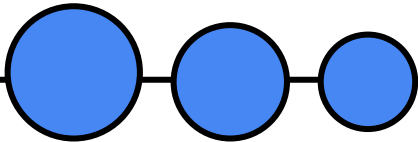
Seats for Mathematics, Physics and Biology in a school are in the ratio 5:7:8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?

- A. 2:3:4 B. 6:7:8 C. 6:8:9 D. None of these



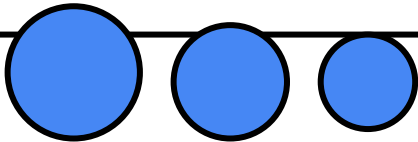
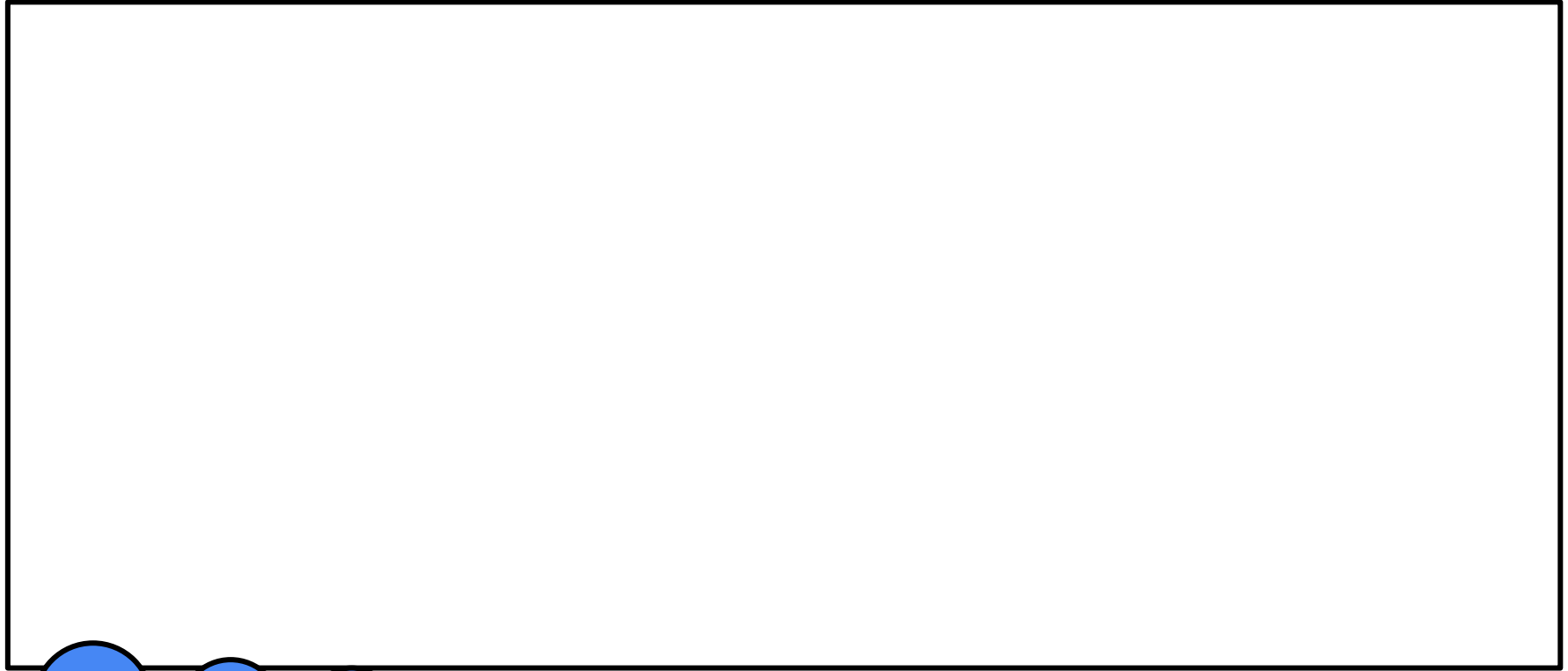
If $0.75:x::5:8$, then x is equal to:

- A. 1.12 B. 1.2 C. 1.25 D. 1.3



The sum of three numbers is 98. If the ratio of the first to second is 2:3 and that of the second to the third is 5:8, then the second number is:

- A. 20 B. 30 C. 48 D. 58



Rs. 5,600 is to be divided into A, B, C, and D in such a way that the ratio of share of A:B is 1:2, B:C is 3:1, and C:D is 2:3. Find the sum of (A and C) and (B and C)?



A. Rs. 2,400, Rs. 3,000

B. Rs. 2,000, Rs. 3,000

C. Rs. 2,400, Rs. 3,200

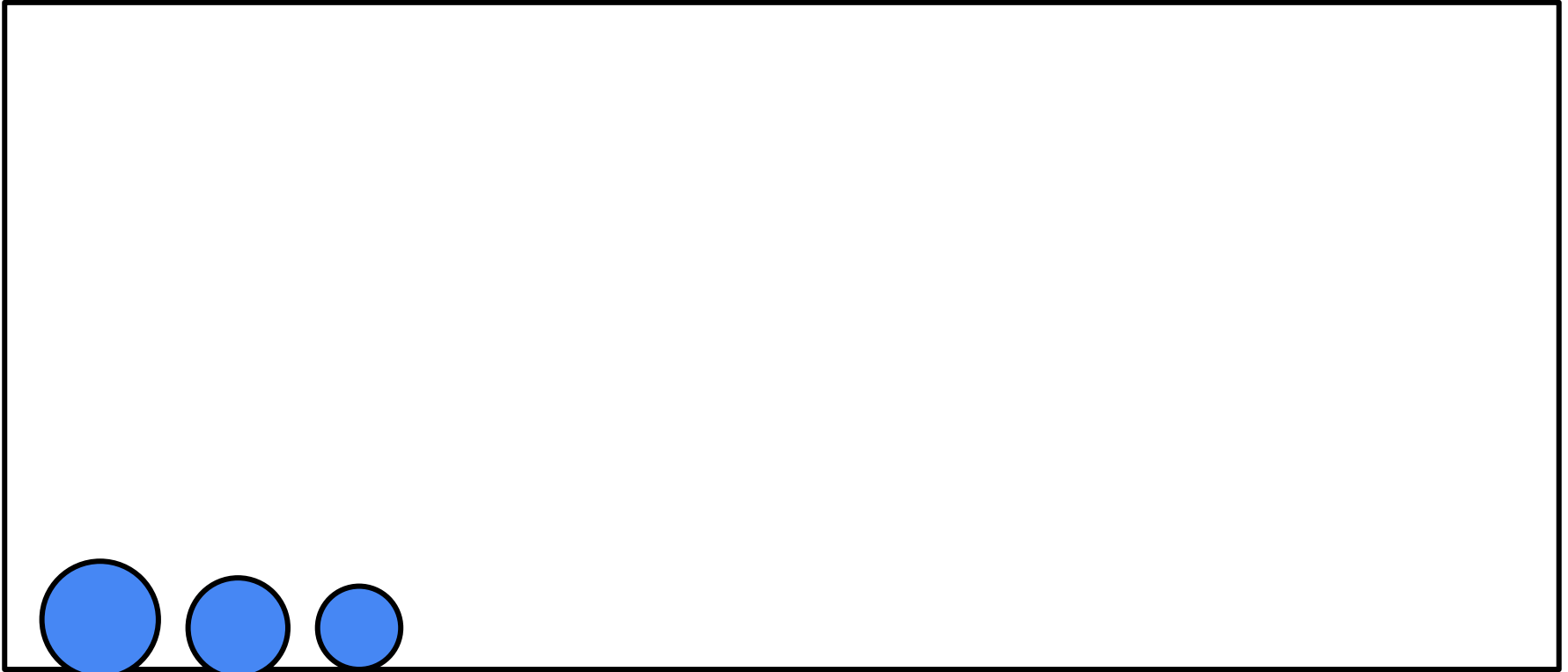
D. Rs. 2,000, Rs. 3,200



The ratio of the total amount distributed in all the males and females as salary is 6:5. The ratio of the salary of each male and female is 2:3. Find the ratio of the number of males and females?



- A. 5:9 B. 5:7 C. 7:5 D. 9:5



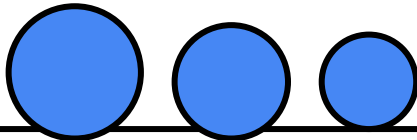
The number of employees is reduced in the ratio 3:2 and the salary of each employee are increased in the ratio 4:5. By doing so, the company saves Rs. 12,000. What was the initial expenditure on the salary?

A. 62,000

B. 60,000

C. 50,000

D. 72,000



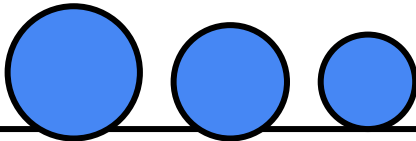
The ratio of the salary of A and B, one year ago is 3:2. The ratio of original salary to the increased salary of A is 2:3 and that of B is 3:4. The total present salary of A and B together is Rs. 21,500. Find the salary of B?

A. 6,000

B. 7,000

C. 8,000

D. 9,000



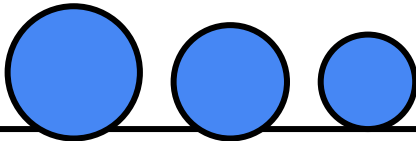
The ratio of income of two workers A and B are 3:4. The ratio of expenditure of A and B is 2:3 and each saves Rs. 200. Find the income of A and B?

A. 500, 600

B. 600, 800

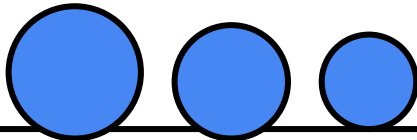
C. 600, 900

D. 800, 1,000



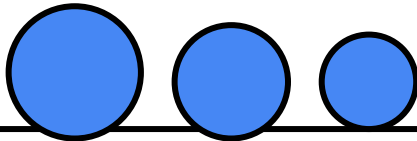
The ratio of the expenditure of Pervez, Sunny, and Ashu are 16:12:9 respectively and their savings are 20%, 25%, 40% of their income. The sum of the income is Rs. 1,530, find Sunny's salary?

- A. 200 B. 480 C. 300 D. 420



In two alloys, respective ratios of copper and zinc are 4:1 and 1:3. 10 kg of the 1st alloy, 16 kg of the second alloy and some quantity of pure copper are melted together. In the resultant alloy the ratio of copper to zinc is 3:2. Find the weight (in kg) of the new alloy?

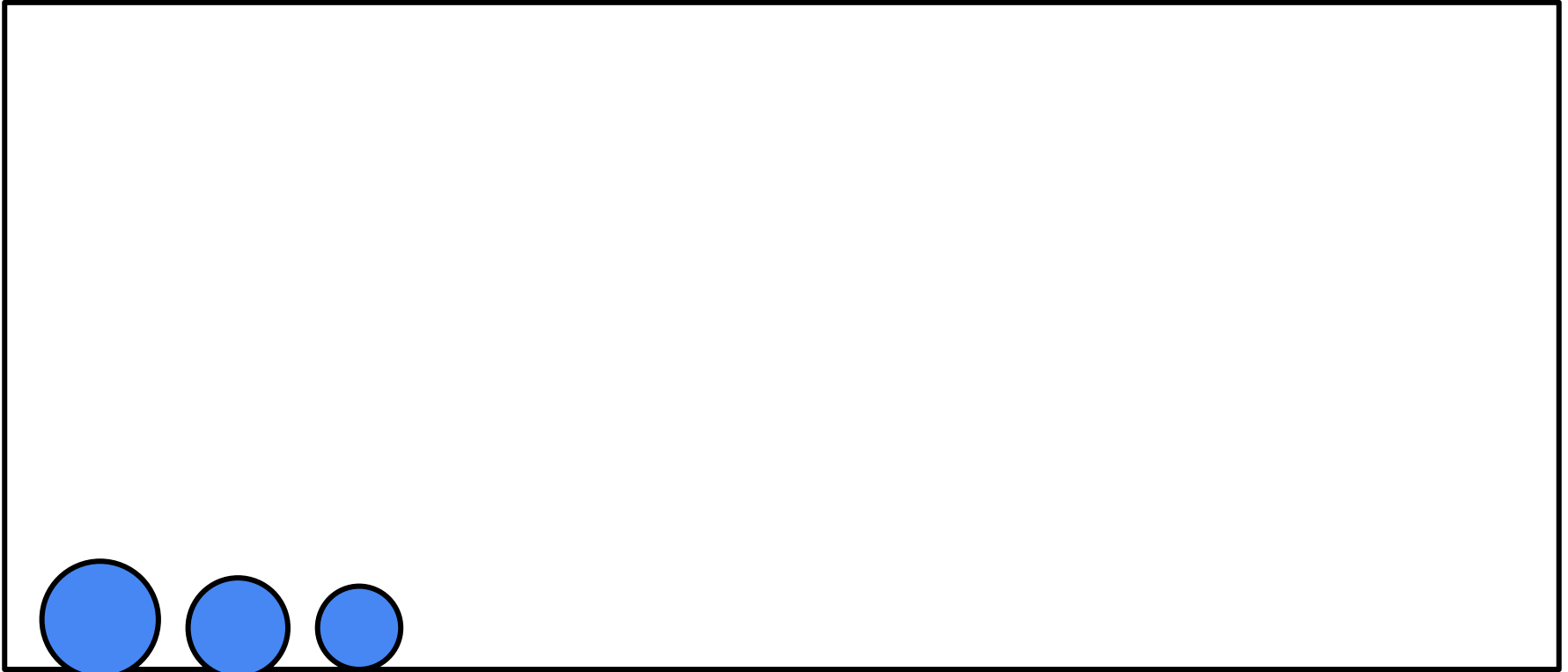
- A. 45 B. 40 C. 35 D. 50





The value of a diamond is directly proportional to the square of its weight. If a diamond weighing 4 kg breaks into 2 pieces, its total value decreases by 37.5%. Weights of the two pieces are:

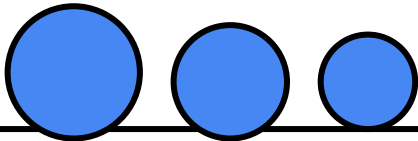
- A. 2 kg, 2 kg B. 2.5 kg, 1.5 kg C. 3 kg, 1 kg D. None of these





A family consists of father, mother, son and daughter. The ratio of the weight of the father to that of the son is 3:2. The ratio of the weight of the son to that of the mother is 5:6. If the weight of the daughter is 35 kg, which is half the weight of the father, find the weight of the mother?

- A. 42 kg B. 56 kg C. 46.6 kg D. Cannot be determined



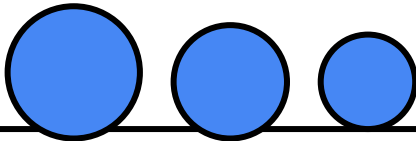
The ratios of the incomes and the expenditures of Aishwarya, Babita and Charu are 7:9:12 and 8:9:15 respectively. If Aishwarya saves one-fourth of her income, then the ratio of their savings is:

A. 56:99:69

B. 69:56:99

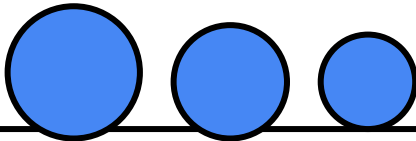
C. 99:56:69

D. 99:69:56



One year ago, the ratio of Harsha's and Mandar's salaries was 3:5. The ratios of their individual salaries of last year and present year are 2:3 and 4:5 respectively. If their combined salary for the present year is Rs. 86,000, find the present salary of Harsha?

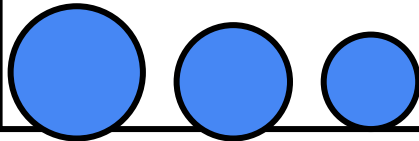
- A. Rs.38,000 B. Rs.24,000 C.Rs.39,000 D. Rs. 36,000





A man sells chocolates that come in boxes. Either full boxes or half a box of chocolates can be bought from him. A customer comes and buys half the number of boxes the seller has, plus half a box. A second customer comes and buys half the remaining number of boxes plus half a box. After this, the seller is left with no chocolate box. How many chocolate boxes did the seller have before the first customer came?

A. 2 B. 3 C. 4 D. 3.5





Thank you

