

G.S.C.E

Chapter Covered Partnership and Ratio & Proportion (50 Questions with Options, Answers and Explanations)

Q1

₹ 1220 is divided, among A , B , C and D , such that B 's share is $\frac{5}{9}$ th of A 's; C 's share is $\frac{7}{10}$ th of B 's and D has $\frac{1}{3}$ as much as B and C together. Find A 's share.
(a) ₹ 540 (b) ₹ 802 (c) ₹ 100 (d) ₹ 650

Q2

A and B entered into a partnership with investments of ₹ 15000 and ₹ 40000 respectively. After 3 months A left from the business, at the same time C joins with ₹ 30000. At the end of 9 months, they got ₹ 7800 as profit. Find the share of B .
(a) ₹ 4800 (b) ₹ 600 (c) ₹ 2400 (d) ₹ 1200

Q3

A , B and C invested capitals in the ratio 2 : 3 : 5; the timing of their investments being in the ratio 4 : 5 : 6. In what ratio would their profit be distributed?
(a) 7 : 16 : 21 (b) 2 : 4 : 5
(c) 5 : 9 : 14 (d) 8 : 15 : 30

Q4

A certain sum of money was divided among A , B and C in a certain way. C got half as much as A and B together got. A got one third of what B and C together got. What is the ratio of A 's share to that of C 's share?
(a) 1 : 4 (b) 3 : 4 (c) 4 : 1 (d) 3 : 5

Q5

Find the fourth proportional to $12X^3$, $9aX^2$, $8a^3X$.
(a) $4a^3$ (b) $6a^4$ (c) $5a$ (d) $7a^5$

Q6

Find $a : b : c$, if $6a = 9b = 10c$.
(a) 12 : 10 : 8 (b) 15 : 4 : 3
(c) 15 : 18 : 9 (d) 15 : 10 : 9

Q7

The sum of three numbers is 98. If the ratio of the first to the 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) 38 (d) 48

Q8

Tea worth ₹ 126 per kg and ₹ 135 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth ₹ 153 per kg, then the price of the third variety per kg is
(a) ₹ 169.50 (b) ₹ 170 (c) ₹ 175.50 (d) ₹ 180

Q9

Incomes of two companies A and B are in the ratio of $5 : 8$. Had the income of company A been more by ₹ 25 lakh, the ratio of their incomes would have been $5 : 4$. What is the income of company B ?

- (a) ₹ 80 lakh (b) ₹ 50 lakh
(c) ₹ 40 lakh (d) ₹ 60 lakh

Q10

A , B and C invested capitals in the ratio $2 : 3 : 4$. At the end of the business term, they received the profits in the ratio $3 : 6 : 10$. Find the ratio of the periods for which they contributed their capitals.

- (a) $1 : 2 : 3$ (b) $3 : 4 : 5$ (c) $4 : 5 : 6$ (d) $2 : 1 : 3$

Q11

A and B rent a pasture for 10 months; A puts in 80 cows for 7 months. How many can B put in for the remaining 3 months, if he pays half as much again as A ?

- (a) 120 (b) 180 (c) 200 (d) 280

Q12

Out of a total amount of ₹ 4,898, B receives 20% more than A and 25% more than C . What is B 's share?

- (a) ₹ 930 (b) ₹ 1,860 (c) ₹ 1,400 (d) ₹ 1,540

Q13

The total emoluments of A and B are equal. However, A gets 65% of his basic salary as allowances and B gets 80% of his basic salary as allowances. What is the ratio of the basic salaries of A and B ?

- (a) $16 : 13$ (b) $5 : 9$ (c) $12 : 11$ (d) $7 : 8$

Q14

If $A : B : C = 2 : 3 : 4$, then $\frac{A}{B} : \frac{B}{C} : \frac{C}{A}$ is equal to

- (a) $4 : 9 : 16$ (b) $8 : 9 : 12$
(c) $8 : 9 : 16$ (d) $8 : 9 : 24$

Q15

Given that 24 carat gold is pure gold, 18 carat gold is $\frac{3}{4}$ gold and 20 carat gold is $\frac{5}{6}$ gold, the ratio of the pure gold in 18 carat gold to the pure gold in 20 carat gold is:

- (a) $3 : 8$ (b) $9 : 10$ (c) $15 : 24$ (d) $8 : 5$

Q16

The fourth proportional to 5, 8, 15 is:

- (a) 18 (b) 24 (c) 19 (d) 20

Q17

The income of A and B are in the ratio $3 : 2$ and expenses are in the ratio $5 : 3$. If both save ₹ 200, what is the income of A ?

Q18

Salaries of A, B and C were in the ratio 3 : 5 : 7, respectively. If their salaries were increased by 50%, 60% and 50% respectively, what will be the new ratio of their respective new salaries ?

- (a) 4 : 5 : 7 (b) 3 : 6 : 7
(c) 4 : 15 : 18 (d) 9 : 16 : 21

Q19

If 12 men can build a wall 100 m long, 3 m high, and 0.5 m thick in 25 days, in how many days will 20 men build a wall 60 m × 4 m × 0.25 m?

- (a) 6 days (b) 8 days (c) 12 days (d) 15 days

Q20

In a dairy farm, 40 cows eat 40 bags of husk in 40 days. In how many days one cow will eat one bag of husk ?

- (a) 1 (b) $\frac{1}{40}$ (c) 40 (d) 80

Q21

The ratio of number of ladies to gents at a party was 1 : 2, but when 2 ladies and 2 gents left, the ratio became 1 : 3. How many people were originally present at the party?

- (a) 6 (b) 9 (c) 12 (d) 10

Q22

The sides of a triangle are in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$ and its perimeter is 104 cm. The length of the longest side is

- (a) 52 cm (b) 48 cm (c) 32 cm (d) 26 cm

Q23

The speed of three buses are in the ratio 2 : 3 : 4. The ratio between the time taken by these buses to travel the same distance is

- (a) 2 : 3 : 6 (b) 4 : 3 : 2 (c) 4 : 3 : 6 (d) 6 : 4 : 3

Q24

If 30 oxen can plough $\frac{1}{7}$ th of a field in 4 hours, in how many hours will 18 oxen take to do the remaining work?

- (a) 30 hours (b) 20 hours
(c) 15 hours (d) 40 hours

Q25

A certain sum of money is divided between A and B in the ratio 3:7. If B gets ₹ 800 more than A, find the total sum.

- (a) ₹ 2400 (b) ₹ 3200 (c) ₹ 3000 (d) ₹ 2000

Q26

A and B invest ₹ 12,000 and ₹ 16,000 respectively in a business. At the year-end, they share the profit in the ratio of 3 : 1. If A has invested his capital for the whole year, for how many months B has invested his capital?

- (a) 4 months (b) 3 months
(c) 6 months (d) 8 months

Q27

A and B invested in the ratio 3 : 2 in a business. If 5 % of the total profit goes to charity and A's share is ₹ 855, find the total profit.

- (a) ₹ 1200 (b) ₹ 1500 (c) ₹ 1800 (d) ₹ 2100

Q28

The sum of the ages of the 4 members of Sinha family is 140 years. 5 years ago the ages of the 4 members Nishu, Vicky, Mrs Sinha and Mr. Sinha were in the ratio of 2 : 3 : 7 : 8. After how many years would Nishu be as old as the present age of his mother?

- (a) 10 yrs (b) 17 yrs (c) 30 yrs (d) 32 yrs

Q29

A bag contains ₹ 600 in the form of one rupee, 50 paise and 25 paise coins in the ratio of 3 : 4 : 12. Find the total number of 25 paise coins in the bag.

- (a) 75 (b) 200 (c) 300 (d) 900

Q30

Two cogged wheels of which one has 32 cogs and other 54 cogs, work into each other. If the latter turns 80 times in three quarter of a minute, how often does the other turn in 8 second? (Assume equal size cogs and equis-spaced).

- (a) 24 (b) 16 (c) 32 (d) 8

Q31

Three friends *A*, *B* and *C* started a business by investing a sum of money in the ratio of 5 : 7 : 6. After 6 months *C* withdraws half of his capital. If the sum invested by '*A*' is ₹ 40,000, out of a total annual profit of ₹ 33,000, *C*'s share will be

- (a) ₹ 9,000 (b) ₹ 12,000 (c) ₹ 11,000 (d) ₹ 10,000

Q32

A, *B* and *C* are partners. *A* receives $\frac{9}{10}$ of the profit and *B* and *C* share the remaining profit equally. *A*'s income is increased by ₹ 270 when the total profit rises from 12 to 15%. Find the capital invested by *B* and *C* each.

- (a) ₹ 5000 (b) ₹ 1000 (c) ₹ 500 (d) ₹ 1500

Q33

A started a business with ₹ 21,000 and is joined afterwards by *B* with ₹ 36,000. After how many months did *B* join if the profits at the end of the year are divided equally?

- (a) 3 (b) 4 (c) 5 (d) 6

Q34

Abhishek started a business investing ₹ 50,000. After one year he invested another ₹ 30,000 and Sudin also joined him with a capital of ₹ 70,000. If the profit earned in three years from the starting of business was ₹ 87,500, then find the share of Sudin in the profit.

- (a) ₹ 37,500 (b) ₹ 35,000
(c) ₹ 38,281 (d) ₹ 52,500

Q35

A and *B* start a business with investments of ₹5000 and ₹4500 respectively. After 4 months, *A* takes out half of his capital. After two more months, *B* takes out one-third of his capital while *C* joins them with a capital of ₹ 7000. At the end of a year, they earn a profit of ₹ 5080. Find the share of each member in the profit.

- (a) *A* – ₹ 1400, *B* – ₹ 1900, *C* – ₹ 1780
(b) *A* – ₹ 1600, *B* – ₹ 1800, *C* – ₹ 1680
(c) *A* – ₹ 1800, *B* – ₹ 1500, *C* – ₹ 1780
(d) *A* – ₹ 1680, *B* – ₹ 1600, *C* – ₹ 1800

Q36

A, *B* and *C* enter into a partnership. They invest ₹40,000, ₹80,000 and ₹1,20,000 respectively. At the end of the first year, *B* withdraws ₹ 40,000, while at the end of the second year, *C* withdraws ₹ 80,000. In what ratio will the profit be shared at the end of 3 years?

- (a) 2 : 3 : 5 (b) 3 : 4 : 7
(c) 4 : 5 : 9 (d) None of these

Q37

Two candles of the same height are lighted at the same time. The first is consumed in 7 hours and the second is consumed in 4 hours. Assuming that each candle burns at a constant rate, in how many hours, after being lighted, was the first candle four times the height of the second ?

- (a) 3.5 hrs (b) 2.5 hrs (c) 2 hrs (d) 3 hrs

Q38

The ratio of the prices of two houses *A* and *B* was 4 : 5 last year. This year, the price of *A* is increased by 25% and that of *B* by ₹ 50000. If their prices are now in the ratio 9 : 10, the price of *A* last year was :

- (a) ₹ 3,60,000 (b) ₹ 4,50,000
(c) ₹ 4,80,000 (d) ₹ 5,00,000

Q39

A and *B* are two alloys of gold and copper prepared by mixing metals in the ratio 7 : 2 and 7 : 11 respectively. If equal quantities of the alloys are melted to form a third alloy *C*, the ratio of gold and copper in *C* will be:

- (a) 5 : 7 (b) 5 : 9 (c) 7 : 5 (d) 9 : 5

Q40

A contractor employed 25 labourers on a job. He was paid ₹ 275 for the work. After retaining 20% of this sum, he distributed the remaining amount amongst the labourers. If the number of male to female labourers was in the ratio 2 : 3 and their wages in the ratio 5 : 4, what wages did a female labourer get ?

- (a) ₹ 15 (b) ₹ 8 (c) ₹ 14 (d) ₹ 10

Q41

Two glasses A and B with their capacities in the ratio 2 : 3. If the total capacities of the glasses is 45 litres. Find the capacity of glass A. **[CDS 2015]**

- (a) 5 (b) 6 (c) 7 (d) 18

Q42

Amit and Sudesh have invested in the ratio of 4 : 7. If both invested an amount of ₹ 49500, then find the investment of sudesh.

[Bank Clerk 2010]

- (a) 31500 (b) 1800 (c) 31000 (d) 18500

Q43

A and B entered into a partnership, investing ₹ 16000 and ₹ 12000 respectively. After 3 months, 'A' withdraw ₹ 5000, while B invested ₹ 5000 more. After 3 more months, C joins the business with a capital of ₹ 21000. After a year, they obtained a profit of ₹ 26,400. By what value does the share of B exceed the share of C ?

[SSC CHSL 2015]

- (a) ₹ 3600 (b) ₹ 2100 (c) ₹ 3000 (d) ₹ 2300

Q44

Divide 1458 into two parts such that one may be to the other as 2 : 7 **[Bank Clerk 2014]**

- (a) 324, 1134 (b) 358, 1100
(c) 462, 996 (d) 458, 1000

Q45

Two numbers are in the ratio of 2: 3. If 15 is added to both the numbers, then the ratio

between two numbers becomes $\frac{11}{14}$. Find the greater number. **[SSC CGL Tier II 2013]**

- (a) 18 (b) 30 (c) 27 (d) 9

Q46

Two numbers are in the ratio 5 : 7. On diminishing each of them by 40, they become in the ratio 17 : 27. The difference of the numbers is :

(SSC CGL Tier I 2014)

- (a) 18 (b) 52 (c) 137 (d) 50

Q47

If ₹ 900 is divided among A, B, C; the division is such that $\frac{1}{2}$ of A's money = $\frac{1}{3}$ rd of B's money

= $\frac{1}{4}$ th of C's money. Find the amount (in ₹)

received by A, B, C. **(SSC CGL Tier I 2017)**

- (a) 300, 400, 200 (b) 350, 450, 100
(c) 200, 300, 400 (d) 400, 150, 130

Q48

A and B are partners in a business. A contributes $\frac{1}{4}$ of the capital for 15 months and B received $\frac{2}{3}$ of the profit. Find how long B's money was used.

(SSC CGL Tier I 2012)

- (a) 6 months (b) 8 months
(c) 10 months (d) 12 months

Q49

A began business with ₹ 45000 and was joined afterwards by B with ₹ 54000. After how many months did B join if the profits at the end of the year were divided in the ratio 2 : 1 ?

(SSC CGL 2011)

- (a) 4 (b) 5 (c) 6 (d) 7

Q50

In a class, the number of boys and girls is in the ratio of 4: 5. If 10 more boys join the class, the ratio of numbers of boys and girls becomes 6 : 5. How many girls are there in the class?

[Bank Clerk 2009]

- (a) 20 (b) 30
(c) 25 (d) Couldn't be determined

For Any Query please feel free to contact 9874021370 time 10am-6pm(Mon-Sat)