

Name of the Bundle	Advanced Bundle V1	Subject	Aptitude
Торіс	Partnership	Last updated on	19 August 2024
Торіс	Partnersnip	Last updated on	19 August 2024

# CONCEPT 1 – BASIC PROBLEMS

1) A and B take a grass field on lease for Rs.300 for grazing their animals. If A grazes 10 animals for 5 weeks and B grazes 15 animals for 7 weeks. The ratio in which they should divide the rent is \_\_\_\_\_.

- a) 1:2
- b) 10:21
- c) 11:20
- d) 2:1

ANS: b) 10:21

A : B 2 1/0\*5 : 1/5\*7 10:21



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# CONCEPT 2 - PROFIT = CAPITAL \* TIME

2) Two partners X and Y start a business by investing Rs.50,000 and Rs.40,000 respectively. What will be the ratio of their profits at the end of the year?

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

ANS: a) 5 : 4

## Explanation:

CAPITAL X : Y = 50,000 : 40,000 = 5 : 4.



**Note :** Always remember when time is the same the profit will be divided in the ratio of their capitals.



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3) Sujitha and Indira started a business by investing 36,000 and 63,000. Find the share of each, out of the annual profit of 5500.

- (a) 2000, 3500
- (b) 2500, 3500
- (c) 3500, 2500
- (d) None of these

ANS: a) 2000, 3500.

## **Explanation:**

CAPITAL Sujitha : Indira = 36,000 : 63,000 = 4 : 7.

# Sujitha : Indira

CAPITAL TIME	( <sup>4</sup> : <sup>7</sup> )
TIME	* (1:1)*
PROFIT	4 : 7

**Note :** Always remember when time is the same the profit will be divided in the ratio of their capitals.

Total Profit = 11 units = 5500.

4 Units = 2000.

7 units = **3500**.



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4) X starts a business with Rs.25,000. After 4 months Y joins him with Rs.20,000. What will be the ratio of their profit at the end of the year?

- a) 4:8
- b) 5:10
- c) 15:8
- d) 9:18

ANS: c) 15: 8

#### **Explanation:**

CAPITAL	X : Y = 25,000 : 20,000 = 5 : 4	Į.
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PROFIT

TIME X : Y = 12 Months : 8 Months = 3 : 2.

	A : B
CAPITAL	* ( <sup>5:4</sup> ) *
TIME	3:2

15:8



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5) A, B and C invested in the ratio 1 : 2 : 3; the timing of their investments being in the ratio 1 : 2 : 3. In what ratio would their profit be distributed?

a) 3:2:1
b) 1:2:3
c) 1:4:9
d) 9:4:1

ANS: c) 1 : 4 : 9

	A : B : C		
CAPITAL	(1:2:3)		
TIME	* ( <sub>1 :2:3</sub> ) *		
PROFIT	1:4:9		



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6) A , B and C invested in the ratio 2 : 5 : 7; the timing of their investments being in the ratio 3 : 4 : 5. In what ratio would their profit be distributed

- a) 2:10:15.
- b) 15:10:2.
- c) 6:20:35.
- d) 6:20:15.

ANS: c) 6 : 20 : 35.

	A : B : C	
CAPITAL	(2:5:7)	
TIME	* (3:4:5) *	
PROFIT	6 : 20 : 35	



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7) A, B and C invested capital in the ratio 4:6:9. At the end of the business term, they received the profits in the ratio 2:3:5. Find the ratio of time for which they contributed their capitals.

- a) 6:5:8.
- b) 6:5:9.
- c) 10:12:9.
- d) 18:18:20.

ANS: d)18:18:20 .

**Explanation:** 

	A : B : C		
CAPITAL	4:6:9		
PROFIT	2:3:5		
TIME	$\frac{\frac{2}{4}}{\frac{1}{2}}:\frac{\frac{3}{6}}{\frac{1}{2}}:\frac{\frac{5}{9}}{\frac{1}{2}}:\frac{1}{\frac{5}{9}}$		
	9:9:10		

According to the options, option d)18:18:20 is the answer.



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8) A,B and C invest their capitals in a business. If the ratio of their periods of investments are 2 : 3 : 6 and their profits are in the ratio of 4 : 5 : 6. Find the ratio in which the investments are made by A,B and C.

- a) 9:10:12.
- b) 4:5:6.
- c) 8:5:12.
- d) 6:5:3.

ANS: d) 6 : 5 : 3.

	A : B : C
TIME	2:3:6
PROFIT	4:5:6
CAPITAL	$\frac{4}{2}:\frac{5}{3}:\frac{6}{6}$
	$2:\frac{5}{3}:1$
	6:5:3



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**CONCEPT 3 - JOINING / WITHDRAWING AFTER X MONTHS.** 

9) A starts a business with 50,000. After 3 months B joins him with 70,000. At the end of the year, in what ratio should they share the profit ?

- a) 12:13
- b) 13:12
- c) 11:15
- d) 20:21

ANS: d) 20 : 21

## **Explanation:**

CAPITAL A : B = 50,000 : 70,000 = 5 : 7.

TIME A : B = 12 Months : 9 Months = 4 : 3.





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10) X and Y are partners in a business. They invest in the ratio 5 : 6, at the end of 8 months X withdraws. If they receive profits in the ratio 5 : 9. Find how long Y's investment was used?

- a) 12 months
- b) 10 months
- c) 15 months
- d) 14 months

ANS: a) 12 months .

	X : Y		
CAPITAL	5:6		
PROFIT	5:9		
TIME	$\frac{5}{5}:\frac{9}{6}$		
	$1:\frac{3}{2}$		
	2:3		

- TIME X : Y = 8 Months : X Months = 2 : 3.
- 2 Units 8 months;
- 3 Units 12 months.



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11) X and Y enter into a partnership with their capitals in the ratio 7 : 9. At the end of the 8th month, X withdraws his capital. If they receive the profits in the ratio 8 : 9, Find how long Y's capital was used.

- a) 4 months
- b) 6 months
- c) 7 months
- d) 8 months

## ANS: c) 7 months.

## **Explanation:**

TIME X: Y = 8 Months : X Months = 2:3

2 Units - 8 months;

	X : Y	
CAPITAL	7:9	
PROFIT	8:9	
TIME	$\frac{8}{7}:\frac{9}{9}$	
	8:7	

TIME X : Y = 8 Months : X Months = 8 : 7.

8 Units - 8 months;

7 Units – 7 months.



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12) X started a business by investing Rs. 2700. After sometime Y joined him by investing Rs. 2025. At the end of one year, the profit was divided in the ratio 2 : 1. After how many months did Y join the business?

- a) 4 Months.
- b) 6 Months.
- c) 3 Months.
- d) 2 Months.

ANS: a) 4 Months.

## **Explanation:**

CAPITAL X: Y = 2700: 2025 = 4:3.

	X : Y
CAPITAL	4:3
PROFIT	2:1
TIME	$\frac{2}{4}:\frac{1}{3}$
	3:2

TIME X : Y = 12 Months : X Months = 3 : 2.

3 Units - 12 months;

2 Units - 8 months.(Time period in which Y invested )

Therefore, After 4 months Y joined.



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13) A started a business with Rs.45,000 and B joined afterwards with Rs.30,000. If the profit at the end of the one year was divided in the ratio 2 : 1 respectively, then B would have joined A for business after.

- a) 1 month.
- b) 2 months.
- c) 3 months.
- d) 4 months.

ANS: c) 3 months.

## **Explanation:**

CAPITAL A : B = 45,000 : 30,000 = 3 : 2.

	A : B
CAPITAL	3:2
PROFIT	2:1
TIME	$\frac{2}{3}:\frac{1}{2}$
	4:3

TIME A: B = 12 Months : X Months = 4 : 3.

4 Units – 12 months;

3 Units - 9 months.(Time period in which Y invested )

Therefore, After 3 months B joined.

![](_page_13_Picture_0.jpeg)

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14) A started a business by investing Rs.36,000. After 4 months B joined her with some investment. At the end of the year, the total profit was divided between them in the ratio 9 : 7. How much capital was invested by B in the business?

- a) 40,000.
- b) 42,000.
- c) 41,000.
- d) None of these

#### ANS: b) 42,000.

**Explanation:** 

Time A: B = 12 months : 8 months = 3 : 2.

	A : B
TIME	3:2
PROFIT	9:7
CAPITAL	$\frac{9}{3}:\frac{7}{2}$
	6:7

CAPITAL A : B = 36,000 : Rs.X = 6 : 7.

6 Units - Rs.36,000 ;

7 Units - Rs.42,000.

![](_page_14_Picture_0.jpeg)

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15) A starts a business with 21,000/- and later on B joins him with 36,000/- After how many months did B join if the profit is distributed in an equal ratio?

- a) 5 months
- b) 7 months
- c) 6 months
- d) 9 months

ANS: a) 5 months

**Explanation:** 

CAPITAL A : B = 21,000 : 36,000 = 7 : 12.

	A : B
CAPITAL	7 : 12
PROFIT	1:1
TIME	$\frac{1}{7}:\frac{1}{12}$
	12:7

TIME X : Y = 12 Months : X Months = 12 : 7.

12 Units - 12 months;

7 Units – 7 months.

Therefore, After 5 months B joined.