

PARTNERSHIP

Profit depends on Capital, Time
Working Capital = Time X Capital

Ratio of Profit = Ratio of Working Capital

	A	1000	X	12 months	12000
	B	4000	X	6 months	24000
	C	5000	X	4 months	20000

$$A : B : C = 12 : 24 : 20$$

$$\text{Profit of A} = \frac{12}{56} \times 28000 = 600$$

$$\text{Profit of B} = \frac{24}{56} \times 28000 = 1200$$

$$\text{Profit of C} = \frac{20}{56} \times 28000 = 1000$$

600, 1200, 1000

	A	3000	12	36000
	B	4000	6	24000
	C	4500	8	36000

$$A : B : C = 36 : 24 : 36$$

$$A = \frac{36}{96} \times 100000 = 375$$

$$B = \frac{24}{96} \times 100000 = 250$$

$$C = \frac{36}{96} \times 100000 = 375$$

375, 250, 375

$$x - \left(\frac{x}{3} + \frac{x}{6} \right) = \frac{2x}{6}$$

$$\frac{x - 3x}{6}$$

$$\frac{2x - x}{2}$$

$$\frac{x}{2}$$

Capital - x Time - T

$$A \quad x/3 \quad T/3$$

$$B \quad x/6 \quad T/3$$

$$C \quad x/2 \quad T$$

$$A : B = \frac{x/3 \times T/3}{x/6 \times T/3} = \frac{1}{2} \quad \text{Red } 2:1$$

$$B : C = \frac{x/6 \times T/3}{x/2 \times T} = \frac{1}{9}$$

$$B : C = \frac{1}{9} \times \frac{2}{1} = \frac{2}{9}$$

$$A : B : C$$

$$2 : 1 : 9$$

$$1 : 1 : 9$$

$$2 : 1 : 9$$

$$\frac{3}{12} \times 1000 = \frac{1}{12} \times 1200 = \frac{1}{12} \times 1000$$

$$200 \quad 100 \quad 900$$

Assuming Capital & Time

$$A \quad 12/3 = 4 \quad 12/3 = 4 \quad 16$$

$$B \quad 12/6 = 2 \quad 12/3 = 4 \quad 8$$

$$C \quad (11.6) = 6 \quad 12 = 12 \quad 72$$

$$16 : 8 : 72$$

$$2 : 1 : 9$$

$$2 : 1 : 9$$

$$\begin{array}{r}
 \text{Munoj} \quad 20000 \\
 \text{Ranesh} \quad x \\
 \hline
 12x \\
 \hline
 120000 \\
 \hline
 12x \\
 \hline
 120000 - 120000 = 0
 \end{array}$$

$$\begin{array}{r}
 6000 \\
 9000 \\
 \hline
 15000 \\
 \hline
 120000 \\
 \hline
 12x \\
 \hline
 120000 - 120000 = 0
 \end{array}$$

$$\begin{array}{r}
 120000 \\
 \hline
 12x \\
 \hline
 120000 - 120000 = 0
 \end{array}$$

$$\begin{array}{r}
 120000 \\
 \hline
 12x \\
 \hline
 120000 - 120000 = 0
 \end{array}$$

$$120000 - 120000 = 0$$

$$120000 - 120000 = 0$$

$$120000 - 120000 = 0$$

$$120000 - 120000 = 0$$

$$120000 - 120000 = 0$$

$$120000 - 120000 = 0$$

$$120000 - 120000 = 0$$

6. kishan
pandey
3x
x
AT
T
6xT
xT

$$\frac{6xT}{xT} = \frac{P}{4000}$$

$$4000 = P$$

Total Profit - 28000

7. A 5x 8 = 40x
B 9x 10T = 90x

$$\frac{40x}{90x} = \frac{2}{1}$$

$$T = 10 \text{ months}$$

8. A 2700 x
B 2025 12-x

$$\frac{2700x}{2025(12-x)} = \frac{2}{1}$$

$$2700x = 2025(12-x)$$

$$2700x + 2025x = 2025 \times 12$$

$$4725x = 2025 \times 12$$

$$x = \frac{2025 \times 12}{4725}$$

$$x = 5$$

A 2700 12
B 8005 2

$$\frac{8700 \times 12^6}{2025 \times 2} = \frac{2}{1}$$

(x-8) B joined after 4 months

A 20 T
B 20 27
C 30 57

$$A:B = \frac{20}{40} = 1:4 \quad A:B:C$$

$$B:C = \frac{20}{40} = 1:4 \quad 1:4:9$$

$$7:16:36$$

$$1:4:9$$

assume value hi 1, 2, 3 ants

involved price for 1, 2, 3 ant. of time

$$1:4:9$$

A 1 1 1
B 2 2 4
C 3 3 9

$$6:20:35$$

A 2 3
B 5 4
C 7 5

Profit's ratio

A 4
B 5
C 6

a) 6:5:8 b) 6:5:9 c) 10:12:9 d) 15:18:20

5) None of these

$$30:35:42 \rightarrow 210:210:210$$

$$[2:1:2]$$

A
B
C

Profit - P

$$A = \frac{2}{5} B = A - B = 2 - 1 = 1$$

$$A = \frac{2}{5} P$$

$$A:B = \frac{2P}{5} : \frac{2P}{5} = \frac{2P \times 14}{5} : \frac{2P \times 14}{5}$$

$$B:C = P - \frac{2}{5} P = \frac{3}{5} P$$

$$\frac{7P - 2P}{5} = \frac{5P}{5} = P$$

$$B:C = 1:1$$

$$A:B = \frac{2P}{5} : \frac{3P}{5} = \frac{2}{3}$$

$$4:5:5$$

$$[4:5:5]$$

$$10 \times 10 = 100$$

$$x = 10P$$

x = Total amt.

$$\frac{15}{100} \times 100P = 15P$$

new Profit

$$A's \text{ share} = \frac{4}{14} \times 15P = 3P$$

$$4 \text{ profit } 14 \text{ } 108 \text{ } 7$$

$$\text{Increase in A's profit} = \frac{3P}{7} - \frac{2P}{7}$$

$$= \frac{P}{7}$$

Assume total profit = 700

$$A = \frac{2}{7} \times 700 = 200$$

$$B \& C = 250, 250$$

$$A : B : C = 4 : 5 : 5$$

$$\frac{10}{100} \times \text{Investment} = 700$$

$$I = 7000$$

$$\text{New Profit} = \frac{15}{100} \times 7000 = 1050$$

$$A's \text{ new Profit} = \frac{2}{7} \times 1050 = 300$$

100 Increase in A's Profit

$$B \& C = \frac{10}{14} \times 7000 = 5000$$

$$100 \text{ Increase} = 5000$$

$$1 \text{ Increase} = \frac{5000}{100}$$

$$240 \text{ Inc} = 50 \times 240$$

$$12000$$

$$6000 + 6000$$

Ans

18. A: 17,000 Profit: P
B: 13,000 $\frac{25 \times P}{100} = \frac{P}{4}$

A:B = 17:13
 $\frac{17}{30} \times P = 532$
 $P = 532 \times 30 = 15960$

A: 1250
B: 2500
C: 3750
A:B = 125:250 = 1:2
B:C = 250:375 = 2:3
A:B:C = 1:2:3

6x = 14400
 $x = \frac{14400}{6} = 2400$

Invested - $3 \times 2400 = 7200$

12. $7000:7000:9800$
6:10:14 = $3:5:7$

$\frac{5}{153} \times 36000 = 12000$

23. A: 37500, B: 8000
A:B = 100:25
 $125 - 75 = 50$
 $25:25$

$\frac{28(375+x)}{4 \times x} = \frac{1}{4}$ capital invested by B
 $375+x=2x$
 $x=375$
A:B = 4:1

$$P = 358$$

$$42 + y = 6$$

$$y = P_2$$

$$42 + 2y = 358$$

$$2y = 358$$

$$y = 179$$

$$3116$$

$$P_1 = 158$$

$$200 : 158$$

$$Capital contributed by B.$$

$$25 \quad y = 158$$

$$200 \times 100$$

$$= 851$$

$$4 \times (768 + x)$$

$$= 158$$

$$7 \times 2$$

$$158$$

$$42$$

$$158$$

$$200$$

$$158$$

$$200$$

$$158$$

$$200$$

$$158$$

$$200$$

$$158$$

$$200$$

$$158$$

$$200$$

$$158$$

$$200$$

$$158$$

$$200$$

$$158$$

$$200$$

$$158$$

$$200$$

$$158$$

$$200$$

$$158$$

$$200$$

Profit / month -

$$y + 10$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

$$y$$

Total Profit $\Rightarrow P$

$$P = 120$$

$$3$$

$$4$$

$$3$$

$$4$$

$$3$$

$$4$$

$$3$$

$$4$$

$$3$$

$$4$$

$$3$$

$$4$$

$$3$$

$$3 \times P = 390$$

$$7$$

$$130 \times 7$$

$$P = 390 \times 7$$

$$910$$

$$8$$

solution

$$P-120 = \frac{8}{120}$$

$$A's \text{ profit} = 370 - 12 \times 10$$

$$A's \text{ profit} = 270$$

B's profit -

$$\frac{A's \text{ profit}}{B's \text{ profit}} = \frac{3000}{4000}$$

$$\frac{270}{B} = \frac{3}{4}$$

$$B = 360$$

1500

$$5x = 7x - 1000$$

$$2x = 1500 \quad x = 750 \quad A's \text{ share} = 1000$$

$$x = 750$$

$$8 \times 750 = 1500$$