# SRI KRISHNAVENI COACHING CENTRE 

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## Sub: Arithmetic

PATERNERSHIP
Exam for : SSC / Banking

1. At the beginning of a partnership business, the Capital of B was $3 / 2$ times that of A. After 8 Months $B$ withdrew $1 / 2$ of his Capital and after 10 months A withdraw $1 / 4^{\text {th }}$ of his Capital. At the end of the year, if the profit incurred as Rs. 53,000/- . Find the amount received by A in Rs. ?
(1) Rs.30,800/-
(2) Rs. 32,000/-
(3) Rs. 30,000/-
(4) Rs. 23,000/-
2. $A, B$ and $C$ started a business with theirinvestments in the ratio 1: $2: 4$. After 6 months, $A$ increased his Capital by $50 \%$ and $B$ invested twice the amount as before, while C withdrew $1 / 4$ of his own investment. The ratio of their profits at the end of the year was---
(1) 10: 5: 9
(2) $5: 12: 14$
(3) $6: 9: 17$
(4) $5: 14: 16$
3. $A, B$ and $C$ entered into a business and their investments ratio was 5: 4: 3. After 4 months $B$ invested Rs. 1,000 more and after 8 months $C$ invested Rs. 2,000 more. At the end of one year the profit ratio was 15: 14: 11, then the investment of $C$ at the beginning was
(1) Rs. 3,000/-
(2) Rs. 4,500/-
(3). 6,000/-
(4) Rs. 7,500/-
4. $A, B, C$ enter into a partnership with shares in the ratio 7/2: 4/3:6/5.After 4 months, $A$ increases his share by $50 \%$. If the total profit at the end of the year was Rs. 43,200/-, then the B's share in the profit as
(1) Rs. 4,200/-
(2) Rs. 7,200/-
(3) Rs. 4,800/-
(4) Rs.8,000/-
5. A invests Rs. 64,000/- in a business. After few months B joined him with Rs.48,000/-. At the end of year, the total profit was divided between them in the ratio $2: 1$. After how months did $B$ join?
(1) 8
(2) 6
(3) 4
(4) 7
6. A sum of Rs. 7,000/- is divided among $A, B, C$ in such a way that the share of $A$ and $B$ are in the ratio $2: 3$ and those of $B$ and $C$ are in the ratio $4: 5$ the share of $B$ is
(1) Rs. 2,400/-
(2) Rs. 1,600/-
(3) Rs. 3,000/-
(4) Rs. 2,000/-
7. $A, B$ and $C$ enter into a partnership A invests 3 times as much as $B$ invests and $B$ invests two-third of what $C$ invests. At the end of the year, the profit earned is Rs. 6,600/-. What is the share of $B$ ? (1) Rs. 1,200/- (2) Rs. 1,600/- (3)Rs. 1,400/- (4) Rs.1,800/-
8. Four milkmen rented a pasture. A grazed 24 Cows for 3 months, B 10 Cows for 5 months, C 35 Cows for 4 months and D 21 Cows for 3 months. If A's share of rent is Rs. 720/-. Find the total rent of the field -
(1)Rs. 4,500/-
(2) Rs. 4,250/-
(3)Rs. 3,250/-
(4) Rs.4,255/-
9. In a Partnership, A invests $1 / 6$ of the Capital for $1 / 6$ of the time, B invests $1 / 3$ of the Capital for $1 / 3$ of the time and C, the rest of the Capital for the whole time.

Out of a profit of Rs. 4,600/-, B's share is:
(1) Rs. 650/-
(2) Rs. 960/-
(3) Rs. 800/-
(4) Rs. 1,000/-
10.A, B and $C$ enter into a partnership and their shares are in the ratio $1 / 2: 1 / 3: 1 / 4$. After 2 months, $A$ withdraws half of his Capital and after 10 months, a profit of Rs. 318/- is divided among them. What is B's share ?
(1) Rs. 129/-
(2) Rs. 156/-
(3)Rs. 120/-
(4) Rs. 168/-
11. A and B entered into a partnership with Capitals on the ratio $4: 5$. After 3 months, A withdrew $1 / 4$ of his Capital and $B$ withdrew $1 / 5$ of his Capital the gain at the end of 10 months was Rs. 760/-. A's share in his profit is : $\qquad$
(2) Rs. 380/-
(3) Rs. 360/-
(4) Rs. 430/-
(1)Rs. 330/-
12. $A$ and $B$ are Partners in a business. A contributes $1 /$ 4 of the Capital for 15 months and $B$ received $2 / 3$ of the profit. For how long B's money was used?
(1) 6 months
(2) 10 months
(3) 9 months
(4) 1 year
13. $A$ and $B$ invest in a business in the ratio of $3: 2$. If $5 \%$ of the total profit goes to charity and A's share is Rs. 855/-, the total profit is:
(1) Rs. 1,425/- (2) Rs. 1,537.50(3) Rs. 1,500/- (4) Rs. 1,576
14. A and B start a business jointly.A invests Rs.16,000/ for 8 months and $B$ remains in the business for 4 months. Out of total profit, B claims $2 / 7$ of the profit. How much money was contributed by B ?
(1) Rs.10,500
(2) Rs. 12,800
(3) Rs.11,900/-
(4) Rs.13,600/-
15. A started a business with Rs. 21,000/- and is joined afterwards by B with Rs. 36,000/-. After how many months did $B$ join if the profits at the end of the year are divided equally?
(1) 3
(2) 5
(3) 4
(4) 6
16. If 4 (A's Capital) $=6$ (B's Capital) $=10$ (C's Capital), then out of a profit of 4650, C will receive,
(1) Rs. 465/-
(2) Rs. 1,550/-
(3) Rs. 900/- (4) Rs. 2,250/-
17. Three partners shared the profit in a business in the ratio $5: 7: 8$. They had partnered for 14 months, 8 months and 7 months respectively. What was the ratio of their investments
(1) $38: 28: 21$
(2) $30: 49: 64$
(3) $5: 7: 8$ (4) None of these
18. A started a business investing Rs . 80,000/-. After 3 months, B joined him investing Rs. 50,000/-. If at the end of the year, they make a profit of Rs. 23,500/ How much, more will be A's share than B's share than in that profit?
(1) Rs. 7,500/- (2) Rs. 8,500/- (3) Rs. 16,000/- (4) Rs. 17,000/19. $A, B$ and $C$ are partners in a business. A invests Rs. 1,000/- for 8 months, B Rs. 1,500/- for 9 months and C, Rs. 1,800/- for 6 months. If the total profit is Rs. 1,615/- how much does B get
(1) Rs. 500/- (2) Rs. 325/-
(3) Rs. 675/- (4) Rs. 700/-

20 . Rs. $8,400 /$ - is divided among $A, B, C$ and $D$ in such a way that the shares of $A$ and $B, B$ and $C, C$ and $D$ are in the ratio of $2: 3,4: 5$ and $6: 7$ respectively. The share of $A$ is ?
(1) Rs. 850/-
(2) Rs. 8,210/-
(3) Rs. 8,400/-
(4) None of these

| SSC - Arthmetic Key Sheet |  |  |  |
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| $\mathbf{1}$ | $\mathbf{4}$ | 11 | $\mathbf{1}$ |
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| 9 | $\mathbf{3}$ | 19 | $\mathbf{3}$ |
| 10 | $\mathbf{3}$ | 20 | $\mathbf{4}$ |


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| 6 | $\mathbf{1}$ | 16 | $\mathbf{3}$ |
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Explanalion
(2) $A: B: C=1: 2: 4$

$$
\begin{aligned}
& =(1 \times 6)+(1.5 \times 6):(2 \times 6):(4 \times 6):(4 \times 6)+(3 \times 6) \\
& =(6+9):(12+24):(24+18) \\
& =15: 36: 42
\end{aligned}
$$

$$
A: B: C=5=12: 14
$$

Ans: (2)
(4)

$$
\text { (4) } \begin{aligned}
A: B: C & =\frac{7}{2}: \frac{4}{3}: \frac{6}{5} \\
& =\frac{7}{2} \times 30: \frac{4}{8} \times 30: \frac{6}{5} \times 30 \\
& =105: 40: 36 \\
& =(105 \times 4)+(157: 5 \times 8):(40 \times 12):(36 \times 12) \\
& =1680: 480: 432 \\
A: B: C & =35: 10: 9 \\
35+10+9 & =54 \longrightarrow 43,200 \\
B & =10 \rightarrow ? \\
B & =\frac{10}{54} \times 43,200 \\
B & =8000 R .
\end{aligned}
$$

Ans: (4)

$$
\overbrace{(5) ~}: B=64,000 \times 12:(12-x) 48,000
$$

profot Ration of $A-B=2=1$
6 $4,000 \times 12:(12-x) 48,000=2: 1$
16

$$
\begin{aligned}
16:(12-x) & =2: 1 \\
\frac{16}{12-x} & =\frac{2}{1} \\
(12-x) 2 & =16 \times 1 \\
12-x & =\frac{168}{2} \\
12-x & =8 \\
x & =12-8 \\
x & =4 \text { manty }
\end{aligned}
$$

affer 4 mon tha
Ans: (3)
(6)

$$
\begin{aligned}
A: B & =2: 3 \\
B: C & =4: 5 \\
A: B: C & =8: 12: 15 \\
8+12+15 & =35 \rightarrow 7,000 \\
B & =12 \rightarrow ? \\
B & =\frac{12}{35} \times 7000=2,400 R
\end{aligned}
$$

A in : (1)
(7)

$$
\begin{aligned}
& A=3 B \Rightarrow A: B=3: 1 \\
& B=\frac{2}{3} C \Rightarrow B 1 C=2: 3 \\
& A: B: C=6: 2: 3 \\
& 6+2+3=11 \rightarrow 6,600 \\
& B=2 \rightarrow ? \\
& B==\frac{2}{H_{1}} \times 66600 \\
& B=1200 R_{3}
\end{aligned}
$$

Ans:(1)
(8)

$$
\begin{aligned}
& \text { (8) } \begin{aligned}
& A: C: D=(24 \times 3):(10 \times 5):(35 \times 4):(21 \times 3) \\
&=72: 50: 140: 63 \\
& 72+50+140+63=325 \\
& A \rightarrow 72 \rightarrow 720 \quad \frac{325}{72} \times 720=3250 R_{1} .
\end{aligned}
\end{aligned}
$$

Tctal-325 $\rightarrow$ Ans: (3)
Ans:
(9) Lct capital $=1$ es, $\frac{1}{3}$ ef lima $=\frac{1}{3} \times 12=4$

$$
A: B=C=\begin{aligned}
& \text { Time }=12 \operatorname{mon} 14 \\
& \frac{1}{6} \text { of time }=\frac{1}{6} \times 12=2
\end{aligned}
$$

$$
\text { cinvesto }=1-\left(\frac{1}{3}+\frac{1}{6}\right)=\frac{1}{2}
$$

$$
\text { ctrme }=12 \text { monits }
$$

$$
\begin{aligned}
& \text { Ctrme }=12 \text { monlts } \\
& A: B: C=\left(\frac{1}{6} \times 1 \times 2\right):\left(\frac{1}{3} \times 1 \times 4\right):\left(\frac{1}{2} \times 12\right) \\
&=\frac{1}{3}: \frac{4}{3}: 6 \quad \text { LC.M }=3 \\
&=\frac{1}{3} \times 3: \frac{4}{3} \times 3: 6 \times 3
\end{aligned}
$$

$$
A: B: C=1: 4: 18
$$

$$
\begin{aligned}
& B^{\prime}:=1: 4: 18 \\
& 1+4+18=23 \rightarrow 4,600 \\
& B=4 \rightarrow ?
\end{aligned}
$$

$$
B=4 \rightarrow \text { ? }
$$

$$
B=\frac{4}{23} \times \frac{4,600}{20}
$$

Ans: 3
10. $A: B: C=\frac{1}{2}: \frac{1}{3}: \frac{1}{4} \quad$ L.C. $M=12$

$$
=\frac{1}{2} \times 12=\frac{1}{3} \times 12: \frac{1}{4} \times 12
$$

$A: B: C=6: 4: 3$
Profstrake $=(6 \times 2)+8 \times 8):(4 \times 10):(3 \times 10)$

$$
=12+24: 40: 30
$$

$$
=36: 40: 30
$$

$$
=18: 20: 15
$$

$18+20+15=53 \rightarrow 318$

$$
\begin{aligned}
& B=20 \rightarrow ? \\
& B=\frac{20}{53} \times 318=120 \text { Rs. } \\
& \text { Ans: (3) }
\end{aligned}
$$



1. $A: B=4: 5$

$$
\begin{aligned}
3 & =4: 5 \\
& =(4 \times 3)+(3 \times 7):(5 \times 3)+(4 \times 7) \\
& =12+21: 15+28
\end{aligned}
$$

$$
=33: 43
$$

$\begin{aligned} A: B & =33: 43 \\ 33+43 & =76 \rightarrow 760\end{aligned}$

$$
A=33 \vec{\longrightarrow} \text { ? }
$$

$$
\begin{aligned}
& A=33 \rightarrow ? \\
& A=\frac{33}{76} \times 760=330 R 1 \\
& \text { Ans: }
\end{aligned}
$$

$$
\xrightarrow{6} \text { Ans: } 1
$$

12. Invest-ment ratio

$$
\begin{aligned}
& \text { nest men realio } \\
& \begin{aligned}
& A: \frac{1}{4}: \frac{4-1}{4}=1 \\
&=\frac{1}{4}: \frac{3}{4} \\
&=1: 3 \\
&=10015: 3 \times x
\end{aligned}
\end{aligned}
$$

$$
A \cdot B=5: x
$$

Prosit rateo $A=\frac{3-2}{2}: \frac{2}{3}$

$$
\begin{aligned}
& A: B=8 \\
& A: B=1: 2 \\
& 5: x=1: 2 \\
& =1
\end{aligned}
$$

$$
\begin{aligned}
& =x=1 \\
& \frac{5}{x}=\frac{1}{2} \\
& x=5 \times 2
\end{aligned}
$$

$$
\begin{aligned}
& \frac{5}{x}=5 \times 2 \\
& x=10 \mathrm{~m} \\
& x=2
\end{aligned}
$$ $x=10 \mathrm{monity}$

Ans
(3) $A=B=3: 2$

$$
\begin{aligned}
& 2 B=855 \\
& A-3 \rightarrow 8 \rightarrow ?
\end{aligned}
$$

$$
\begin{gathered}
A-3 \\
3+2=5 \times 245 \\
5 \times 855=
\end{gathered}
$$

$5 \%$ chards - $\frac{5 \times 85}{28555}=1425 \frac{100}{951} \times 1425$ $5 \%$ chavity - $\begin{gathered}\frac{5}{2} \times 55-1425 \\ \cdots \%-9\end{gathered}$
14. Invertmento ratio
$A: B=16,000 \times 8^{2}: x \times 4$
$\theta: B=32,000: 7$
Profot ratos

$$
\begin{aligned}
& A: B=\frac{7-2}{1}: \frac{2}{7} \\
& A: B=5: 2
\end{aligned}
$$

$$
32,000: x=5: 2 \quad 6400
$$

$$
\frac{32,000}{x}=\frac{5}{2} \Rightarrow x=\frac{32,000 \times 2}{5}
$$

Ans: (2)
15. $A=B=2,000 \times 120 \times(12-x)$

$$
A: B=7:(2-x)
$$

Profit ratio
Let $A: B=1: 1$

$$
\begin{aligned}
& A: B=1: 1 \\
& \frac{7}{12 \cdot x}=\frac{1}{1} \Rightarrow \begin{array}{l}
12-x=7 \\
\\
x=12-7 \\
x=5 \text { mon } 14 \mathrm{~s}
\end{array}
\end{aligned}
$$

$16-4_{2}^{4} A=4 B=100 C$

$$
2 A=3 B=5 C
$$

$$
2 A=3 B \Rightarrow A: B=3: 2
$$

$$
\begin{aligned}
& 2 A=3 B \Rightarrow A: C=5 \div 3 \\
& 3 B=5 C \Rightarrow B: C=5
\end{aligned}
$$

$$
\begin{aligned}
A: B: C & =15: 10: 6 \\
15+10+6 & =31 \\
C & =6 \rightarrow 4650 \\
& \rightarrow ?
\end{aligned}
$$

$$
\begin{gathered}
C=\frac{6}{3+} \times 4650^{15}=900 \mathrm{R} \\
\text { Ans: (3) }
\end{gathered}
$$

12. Let Invest ments ratio $=x: y: z$

Prosit ratio $=14 x=8 \mathrm{y}: 7 \mathrm{z}$
Given profit rater $=5: 7: 8$

| $\therefore 14 x: 8 y: 7 z=5: 7: 8$ |
| :--- | :--- |
| $\frac{4 x}{8 y}=\frac{5}{7} \Rightarrow \frac{x}{y}=\frac{5}{7} \times \frac{8^{4}}{147}=\frac{20}{49}$ |\(| \begin{array}{r}\frac{8 y}{7 z}=\frac{7}{8} \Rightarrow \frac{y}{z}=\frac{7}{8} x: <br>

y: z=49: t\end{array}\)
$x=y=20: 49$
$y=z=49^{2}: 64$
$x: y: z=980: 2401: 3136$ (4) (4)
18.

$$
\begin{aligned}
& A 2 B=80,000 \times 12: 50,000 \times 9 \\
&=32: 15 \\
& 32+15=47 \rightarrow 23,500 \\
& 32-15=17 \rightarrow 7 \\
& \frac{17}{4 T} \times 23,500=8,500 \\
& A+s: 2
\end{aligned}
$$

19. 

$$
\begin{aligned}
A: B: C & =10,00 \times 8: 1500 \times 9: 1800 \times 6 \\
& =10 \times 8: 15 \times 9: 18 \times 6 \\
& =80: 135: 108 \\
80+135+108 & =323 \rightarrow 1615 \\
B & =135 \rightarrow ? \\
B & =\frac{135}{323} \times 1615
\end{aligned}
$$

Ans-(3)
20.

$$
\begin{aligned}
& A: B=2: 3 \\
& B: C= \\
& C: D=
\end{aligned}
$$

$$
C: D=
$$

$$
\begin{aligned}
& A: B: C: D=48: 72: 90: 10 \\
& A: B: C: D=16: 24: 30: 35
\end{aligned}
$$

$$
\begin{aligned}
& A: B: C: D=10 \\
& 5: 24+30+35=105 \rightarrow 8,400 \\
& 16+16 \rightarrow ? 80
\end{aligned}
$$

$$
\begin{aligned}
& 35=100 \rightarrow ? 80 \\
& A=16 \rightarrow 80 \\
& 5
\end{aligned}
$$

$$
A=\frac{16}{105} \times 84^{00}
$$

$$
\bar{q}_{1}
$$

$$
\theta=1280
$$

AMS. (4)
(1)

$$
\begin{aligned}
B & =\frac{3}{2} A \Rightarrow A: B=2: 3 \\
A: B & =2: 3 \\
& =(2 \times 10)+\left(\frac{3}{2} \times 2\right):(3 \times 8)+\left(\frac{3}{2} \times 4\right) \\
& =(20+3):(24+6) \\
& =23: 30 \\
23+30 & =53 \rightarrow 53,000 \\
A & -23 \rightarrow ? \\
A & =\frac{23}{53} \times 53,000 \\
A & =23,000
\end{aligned}
$$

(B) 3

$$
\begin{aligned}
&A: B: C=(5 x \times 12):(4 x \times 4)+(4 x+100004) \times 8) \\
&:(3 x \times 8)+(3 x+200 \cdot 7 \times 4
\end{aligned}
$$

$$
=15 x: 12 x+2000: 9 x+2000
$$

$$
\begin{aligned}
\frac{15 x}{12 x+2000} & =\frac{150}{14} \\
14 x & =12 x+2000 \\
2 x & =2000 \\
x & =1000 \\
c=3 x & =3 \times 1000=3000
\end{aligned}
$$

Aus: (D)

