



PARTNERSHIP_CSAT_ANSWER_EXPLANATION

Answer 1: (B)

Investment ratio of A & B = 2 : 5

So, profit ratio = 2 : 5

let total profit = x

50% total profit goes to charity

Remaining profit = 0.5x

ATQ,

A's share = 3.6 lakh

$$\frac{2}{7} \times 0.5x = 3.6 \text{ lakh}$$

$$x = \frac{3.6 \times 7}{2 \times 0.5}$$

x = 25.2 lakhs

So, total profit = 25.2 lakh

Answer 2: (B)

3A = 2B = 4C

A : B : C = 4 : 6 : 3

ATQ,

3 unit = 4863

$$4 \text{ unit} = \frac{4863 \times 4}{3} = 6484$$

A share = 4 unit = 6484

Answer 3: (A)

A : B : C

15000 × 8 : 12000 × 9 : 8000 × 12

10 : 9 : 8

Difference between A's and C's share =

$$= \frac{2}{27} \times 21600$$

= Rs 1600

Answer 4: (C)

A : B : C = 4 : 2 : 9

A : B : C after 1 year = $(4 \times 3 + 2 \times 3 + 1 \times 3 + \frac{1}{2} \times 3)$

$(2 \times 3 + 4 \times 3 + 8 \times 3 + 16 \times 3)$

(9×12)

$$A : B : C = \frac{45}{2} : 90 : 108$$

A : B : C = 45 : 180 : 216

A : B : C = 5 : 20 : 24

5 unit = 24000

$$1 \text{ unit} = \frac{24000}{5} = 11800$$

Total profit = (5+20+24) unit

= 49 unit

= 49 × 4800

= 235200

Answer 5: (B)

A : B : C
5 : 6 : 4

Profit $\frac{5}{15} \times 70\%$: $\frac{6}{15} \times 70\%$: $\frac{4}{15} \times 70\%$

$$A's \text{ profit} = \frac{5}{15} \times 70\% + 30\% = \frac{800}{15}\%$$

$$\text{Profit} [A - (B + C)] = \frac{800}{15}\% - \frac{700}{15}\% = \frac{100}{15}\%$$

$$\frac{100}{15} \text{ unit} \rightarrow 20,000$$

$$B's \text{ profit} = \frac{20,000}{100} \times 15 \times \frac{420}{15} = \text{Rs } 84,000$$

Answer 6: (A)

$$\text{Time} = \frac{\text{Profit}}{\text{Capital}}$$

A : B
Profit → 2 : 5
Capital → 14 : 15

Time → $\frac{2}{14}$: $\frac{5}{15}$

Time → 3 : 7

3 unit = 3 month

7 unit = 7 month

B's time = 7 month

Answer 7: (B)

Given,

B = A + 50000

C = B - 25000

C = A + 25000

ATQ,

A + B + C = 300000

A + A + 50000 + A + 25000 = 300000

A = 75000

B = A + 50000 = 125000

C = A + 25000 = 100000

A : B : C = 75000 : 125000 : 100000

A : B : C = 3 : 5 : 4

$$C's \text{ profit share} = \frac{4}{12} \times 14400 = \text{Rs. } 4800$$



Answer 8: (C)

$$\text{Capital} = \frac{\text{Profit}}{\text{Time}}$$

Profit 8 : 7 : 5

Time 7 : 8 : 14

$$\text{Capital} \left(\frac{8}{7} : \frac{7}{8} : \frac{5}{14} \right) \times 56$$

64 : 49 : 20

Answer 9: (d)

$$A : B : C = \frac{1}{4} : \frac{1}{3} : \frac{1}{6}$$

A : B : C

Capital 3x : 4x : 2x

Total capital invested by

A in 1 year = 3x × 4 + 1.5x × 8 = 24x

Total capital invested by B in 1 year

$$4x \times 6 + \frac{4x}{3} \times 6 = 32x$$

Total capital invested by C in 1 year = 2x × 12 = 24x

A : B : C

Capital 24x : 32x : 24x

3x : 4x : 3x

ATQ,

$$10x = 14000$$

$$x = 1400$$

Hence, Profit of A = 3 × 1400

= Rs. 4200

Profit of B = 4 × 1400

= Rs. 5600

Profit of C = 3 × 1400

= Rs. 4200

Answer 10: (B)

Let time of B is T months.

Time × Investment = Profit

A.T.Q,

$$\frac{7}{5} \times \frac{6}{T} = \frac{2}{5}$$

$$210 = 10T$$

$$T = 21 \text{ months.}$$

Answer 11: (A)

	A	:	B	:	C
Capital	→ 2	:	3	:	5
Time	→ 4	:	2	:	3
Profit	→ 8	:	6	:	13

+7

7 unit → 147000

$$6 \text{ unit} = \frac{147000 \times 6}{7} = 126000$$

Profit of B = 128000

A : B : C = 5 : 3 : 6

ATQ,

5 unit = 192380

$$1 \text{ unit} = \frac{192380}{5}$$

$$6 \text{ unit} = \frac{192380}{5} \times 6 = 230856$$

Share of C = 230856

Answer 13: (D)

Investment ratio = 5 : 8

So, profit ratio = 5 : 8

Assuming total profit = x

They reinvest 30% of profit

Remaining profit = 0.7x

ATQ,

A share = 87500

So,

$$\frac{5}{13} \times 0.7x = 87500$$

$$x = \frac{87500 \times 13}{5 \times 0.7}$$

$$x = 325000$$

Total profit = 325000

Answer 14: (C)

B profit = 600

A profit = 2000 - 6000

= 1400

A : B = 1400 : 600

A : B = 7 : 3

(7+3) unit = 15000

$$1 \text{ unit} = \frac{15000}{10} = 1500$$

7 unit = 15000 × 7 = 10500

A's investment = 10500

Answer 15: (D)

A : B : C = 3 : 4 : 7

$$\text{After 30\% tax total profit} = 110166 \times \frac{7}{10}$$

$$B \text{ share} = \frac{4}{(3+4+7)} \times 110166 \times \frac{7}{10}$$

$$= \frac{4}{14} \times \frac{7}{10} \times 110166$$

$$= 22033.2$$

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