

Solutions

SCOTE FOR B

1. (d) Male: Female

5z : 4z Since 2y = 4z

$$(4x + 3x) + (3y + 2y) + (5z + 4z) = 33$$
$$7x + 19 z = 33$$

$$7x + 19z = 3$$

$$x = 2$$

i.e. No of Female children in $A = 3 \times 2 = 6$

2. (b)
$$\frac{\frac{\text{Profit of SBI}}{\text{Profit of Airtel}}}{\frac{6}{6} = \frac{5 \times K}{5 \times K}} = \frac{\text{time} \times \text{amount}}{\text{time} \times \text{amount}}$$

$$\frac{17}{12 \times 1275}$$

$$\frac{\frac{6}{17} = \frac{5 \times K}{12 \times 1275}}{K = 1080}$$
3. (a) $7 \times 4 + 4 \times 5 + 3 \times 2 = 4536$

$$28 + 20 + 6 = 4536$$

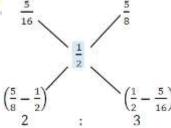
$$1 = \frac{4536}{54}$$

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$$3 = \frac{4536}{54} \times 20 = 1680$$

Share of each woman =
$$\frac{1680}{5}$$
 = 336

4. (d) By rule of Alligation



5. (a) By rule of Alligation

$$(8+5) = 182$$

 $1 = \frac{182}{13} = 14$
 $8 = 14 \times 8 = 112$

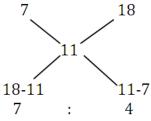
6. (c)
$$A = \frac{2}{3}B$$
, $B = \frac{3}{5}C$

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

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

$$(2+3+5)=6940$$

$$(2+3) = \frac{6940}{10} \times 5$$



$$S: G = 100:150$$

$$H: P = 100: 200$$

$$S:G:P=100:150:200$$

9. (b) Let Income of Anil and Mukesh 2x & 3x

Let expenditure of Mukesh = k &

Let expenditure of Anil =
$$2x - k$$

$$(2x - k) + k = 8000$$

$$x = 4000$$

Total income of A = (2x + 3x)4000 = 20,000

10.(b)Quantity of Petrol =
$$\left(2 \times \frac{1}{2} + 3 \times \frac{3}{5} + 1 \times \frac{4}{5}\right)$$

$$= 1 + 1.8 + 0.8 = 3.6$$

Quantity of kerosene=
$$(2 + 3 + 1) - 3.6 = 2.4$$

Required Ratio= $\frac{3.6}{2.4} = 3 : 2$

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$$\frac{3.6}{2.4}$$
 = 3 : 2