1. In an examination of bank, the number of passed candidates was five times the number of failed candidates. If there had been 40 less candidates appeared and 20 more candidates had failed, then the ratio of passed to failed candidates becomes 3: 1. Then find the total number of candidates failed initially.
A.70
B.60
C.50
D.300
E.None of these

2. The ratio of the number of literate and illiterate population in the city is 8:5. If 40% of the illiterate population are female and the number of literate male population in the city is 9600 and the number of literate population is 8400 more than the number of illiterate population, then find the number of female population in the city?
A.18200
B.18400
C.18600
D.18800
E.18900

3. The total population of town A is 2/5th of the total population of town B and the ratio of the total population of town A to C is 4:7. If the total population of towns A and C together is 150 more than that of town B, then find the total population of town C?
A.700
B.1400
C.1050

D.840
E.None of these

4. The ratio of the total number of male and females in a company is 4:5. If 18 employees resigned from the company and 12 new male employees and 10 new female employees joined the company, then the ratio becomes 14:15. Find the initial number of employees in the company.
A.89
B.54
C.65
D.45
E.None of these

5. The ratio of the expenditure to savings of Rajesh is 2:1 and 25% of the income of Nallu is equal to 40% of his income of Rajesh. If the expenditure of Nallu is double the expenditure of Rajesh, then the savings of Nallu is what percentage of the savings of Rajesh?
A.70%
B.30%
C.80%
D.50%
E.None of these

6. Ratio of the income to the expenditure of A and B is 5:4 and 8:7 respectively and the sum of their savings is Rs.9000 and the savings of A is Rs.1000 more than that of B. Find the difference between their incomes.
A.Rs.7000
B.Rs.4500
C.Rs.6000
D.Rs.8000
E.None of these

7. The income of Gray is 125% of the income of Parker and the income of Robert is 50%

more than that of Parker. If the difference between the income of Gray and Robert is Rs.2100, then find the income of Parker?
A.Rs.8400
B.Rs.7200
C.Rs.9600
D.Rs.8200
E.None of these

8. The ratio of the investment of Pavi to Rihana is 15:8 and the investment period of Pavi and Rihana is x and 3x respectively. If the total profit of the business is Rs.3900, then find the difference between the profit share of Pavi and Rihana.
A.Rs.900
B.Rs.1500
C.Rs.750
D.Rs.600
E.None of these

9. The income of Gokila is 25% less than that of Shri and the expenditure of Gokila is 12.5% more than that of Shri. If the savings of Shri and Gokila is Rs.6000 and Rs.3000 respectively, then find the expenditure of Gokila.
A.Rs.4500
B.Rs.6300
C.Rs.5400
D.Rs.3600
E.None of these

10. The ratio of the number of Boys to Girls who participated in a dance competition is 4:5. 45% of the girls got selected. If the number of girls who are not selected is 176. Then find the total number of students who participated in the competition?
A.523
B.546

C.576
D.584

E.592

ANSWER WITH EXPLANATION

1. Answer: B
Let the number of failed candidates = X
Number of passed candidates = 5X
Total candidates = X+5X =6X
Now total number of candidates if 40 fewer candidates appeared = 6X - 40. Number of failed candidates if 20 more had failed = X+20.
Number of passed candidates = (6X - 40) - (X+20) = 5X - 60
According to question,
Number of passed/Number of failed = 3: 1
(5X – 60)/(X+20) = 3: 1
5X – 60 = 3X + 60
2X = 120
X = 60
Therefore number of failed candidates = 60

2. Answer: B
8x – 5x = 8400
x = 2800
Total number of literate population = 2800 * 8 = 22400
Total number of illiterate population = 2800 * 5 = 14000
Number of male illiterate population = 14000 * 60/100 = 8400
Total number of male population = 8400 + 9600 = 18000
Total number of female population = (22400 + 14000) – 18000
= 18400

3. Answer: C
Let the total population of town A = 4x
And the total population of town C = 7x

And the total population of town B = 4x * 5/2 = 10x
4x + 7x – 10x = 150
x = 150
The total population of town C = 7 * 150 = 1050

4. Answer: B
Initial number of male employees = 4x
Initial number of female employees = 5x
(4x - 18 * 4/9 + 12)/(5x - 18 * 5/9 + 10) = 14/15
(4x + 4)/5x = 14/15
60x + 60 = 70x
x = 6
Total number of employees in the company = 4 * 6 + 5 * 6 = 54

5. Answer: C
Let the income of Rajesh = 100x
And the income of Nallu = 100x*40/25 = 160x
The expenditure of Rajesh = 100x*2/(2+1) = 200x/3
The savings of Rajesh = 100x-200x/3 = 100x/3
The expenditure of Nallu = 200x/3 *2 = 400x/3
The savings of Nallu = 160x-400x/3 = 80x/3
Required percentage = (80x/3)/(100x/3)*100 = 80/100*100 = 80%

6. Answer: A
Income of A = 5x
Expenditure of A = 4x
Savings of A = 5x – 4x = x
Income of B = 8y
Expenditure of B = 7y
Savings of B = 8y – 7y = y
x + y = 9000 ---- (1)

x – y = 1000 ---- (2)
From (1) and (2),
2x = 10000
x = 5000
y = 5000 – 1000 = 4000
Income of A = 5 * 5000 = Rs.25000
Income of B = 8 * 4000 = Rs.32000
Required difference = 32000 – 25000 =
Rs.7000

7. Answer: A
Let the income of Parker = x
Income of Gray =125x/100
Income of Robert = 150x/100
(150x/100) – (125x/100)= 2100
25x = 2100 * 100
x = 8400

8. Answer: A
The ratio of the profit share of Pavi to Rihana =
(15 *   x) : (8 * 3x) = 5:8
The difference between the profit share of Pavi
to Rihana = 3900 * (8 – 5)/(8 + 5) = 3900 * 3/13
= Rs.900

9. Answer: A

The ratio of the income of Gokila to Shri =
75:100 = 3:4
The ratio of the expenditure of Gokila to Shri =
112.5:100 = 9:8
3x – 9y = 3000 ---(1)
4x – 8y = 6000 ---(2)
From (1) and (2),
12x – 36y = 12000
- 12x + 24y = - 18000
12y = 6000
y = 500
The expenditure of Gokila = 9 * 500 = Rs.4500

10. Answer: C
Ratio of the number of Boys to Girls = 4:5
Number of Girls who are not selected = 5x*
55%= 176
11x/4 = 176
x = 176* 4/11 = 64
Total number of boys and girls = 9x
= 9 * 64 = 576

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