Banking Daily Quiz Blog - September 21

1. **Read the instruction carefully and answer the questions based on it.**

   What value should come in the place of question mark (?) in the following number series?

A. $7259, 7234, 7185, 7104, 6983, ?$

A	**6814**

B	6816

C	6918

D	7028

E	6572

Solution

$7259 - 5^2 = 7234$

$7234 - 7^2 = 7185$

$7185 - 9^2 = 7104$

$7104 - 11^2 = 6983$

$6983 - 13^2 = ? = 6814$

B. $123, 144, 175, 218, 275, ?$

A	330

B	**348**

C	340

D	355

E	350

Solution

$123 + 4^2 + 5 = 144$

$144 + 5^2 + 6 = 175$

$175 + 6^2 + 7 = 218$

$218 + 7^2 + 8 = 275$

$275 + 8^2 + 9 = ? = 348$

C. $85, 106, 74, 119, ?, 136$

A	55

B	57

C **59**

D 61

E 63

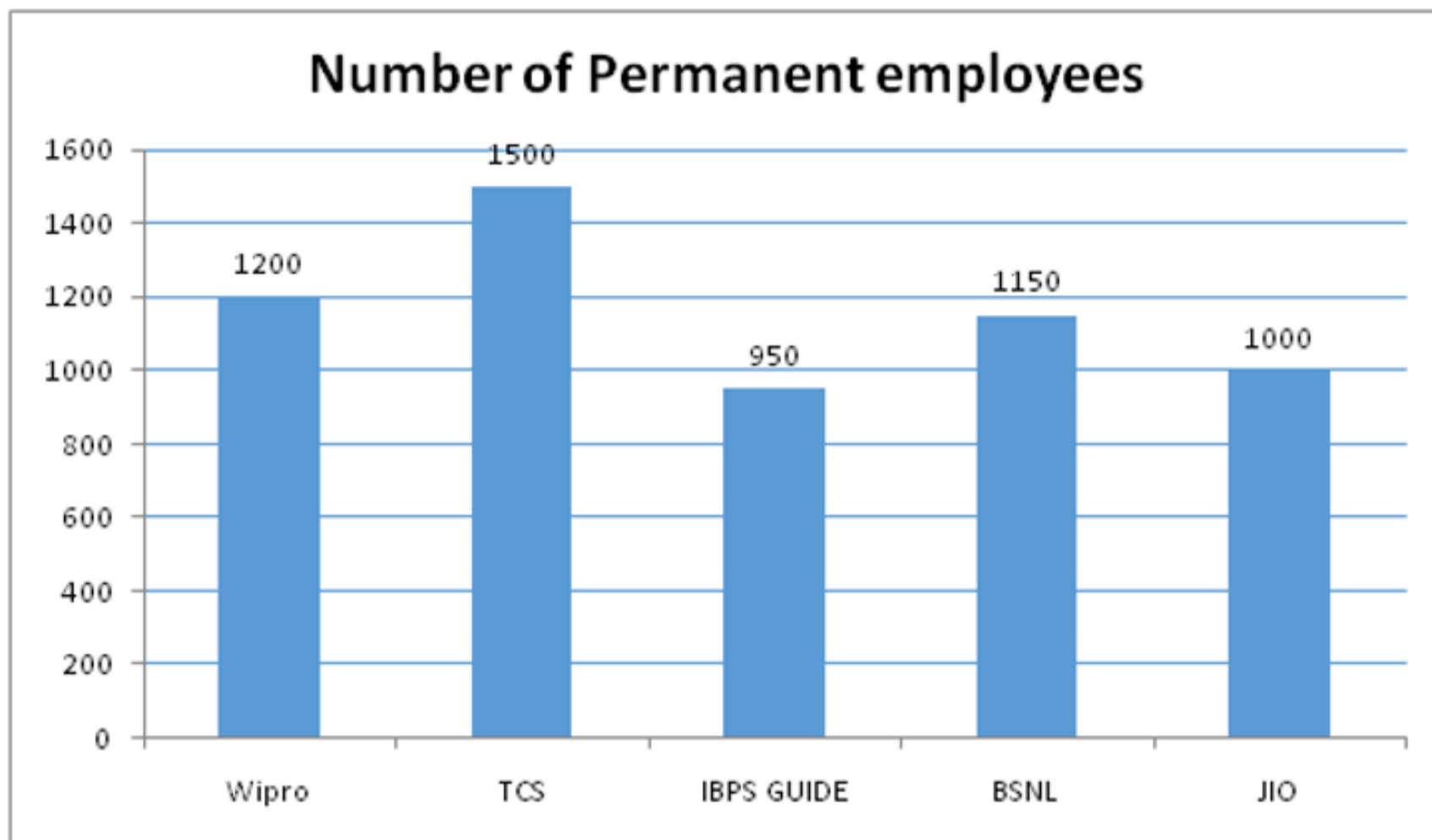## Solution

$85 + 7 \times 3 = 106$

$106 - 8 \times 4 = 74$

$74 + 9 \times 5 = 119$

$119 - 10 \times 6 = ? = 59$

$59 + 11 \times 7 = 136$

2. **Study the following information carefully and answer the given questions.**

The graph shows the number of permanent employees in 5 different companies.

Number of Permanent employees

The table shows the ratio of number of permanent to temporary employees in five companies.

Company	Permanent: Temporary
Wipro	4:5
TCS	3:7
IBPS Guide	19:20
BSNL	23:19
Jio	2:3

A. **Find the average temporary employees in all the companies together.**

| A | 1650 |

| B | 1670 |

| C | 1680 |

| **D** | **1690** |

| E | 1685 |

Solution

The temporary employees in all the companies together

$$=> \left(\frac{1200}{4}\right) \times 5 + \left(\frac{1500}{3}\right) \times 7 + \left(\frac{950}{19}\right) \times 20 + \left(\frac{1150}{23}\right) \times 19 + \left(\frac{1000}{2}\right) \times 3$$

$$=> 1500 + 3500 + 1000 + 950 + 1500 = 8450$$

Required average $= \left(\frac{8450}{5}\right) = 1690$

B. **Number of permanent employees in TCS is what percentage more than the permanent employees in Jio?**

| A | 48% more |

| B | 60% more |

C	40% more

D	45% more

E	50% more

Solution

Number of permanent employees in TCS $= 1500$

Number permanent employees of Jio $= 1000$

Required percentage $= [\frac{(1500-1000)}{1000}] \times 100\%$

$=> 50\% \ more$

C. **Find the difference between total number of employees in TCS and IBPS Guide.**

A	2050

B	3150

C	**3050**

D	3250

| E | 3020 |

Solution

TCS Permanent employees $= 1500$

TCS temporary employees $= \frac{7}{3} \times 1500 = 3500$

TCS total employees $= 5000$

IBPS Guide Permanent employees $= 950$

IBPS Guide temporary employees $= \frac{20}{19} \times 950 = 1000$

IBPS Guide total employees $= 1950$

Required difference $= 5000 - 1950 = 3050$

D. Number of permanent employees in Jio is what percentage of temporary employees in Wipro?

| A | 66.66% |

| B | 65.5% |

| C | 67.5% |

| D | 60.25% |

| E | None of these |

Number of permanent employees in Jio $= 1000$

Number of temporary employees of Wipro $= \frac{1200}{4} \times 5 = 1500$

Percentage $= \frac{1000}{1500} \times 100\% = 66.66\%$

E. **Find ratio of permanent employees of BSNL to the temporary employees of Wipro.**

A   **23:30**

B   25:17

C   22:31

D   24:31

E   25:32

Permanent employees of BSNL$= 1150$

Temporary employees of Wipro $= \frac{1200}{4} \times 5 = 1500$

Required ratio $= 1150 : 1500 = 23 : 30$

Below given question consist of two statements I and II. You have to decide whether the data provided in the statement are sufficient to answer the question, and answer:

a). If only statement I alone is sufficient to answer the question.

b). If only statement III alone is sufficient to answer the question.

c). If Either I alone or II alone is sufficient to answer the question.

d). If Both I and II together are sufficient to answer the question.

e). If Both I and II together are not sufficient to answer the question.

3. **X, Y and Z are three consecutive even numbers (not necessarily in this order).**

What is the sum of these numbers?

I. The difference between X and Z is 4.

II. One-third of Y is 18.

A   A

B   B

C   C

D   **D**

E   E

Solution

$X-z = 4$ or $z-x = 4$

II:

$\frac{1}{3} \times y = 18$

$Y = 54$

From I and II

x, y and z are $52, 54, 56$ respectively

Required sum $= 52 + 54 + 56 = 162$

Hence, Both I and II together are sufficient

$X-z = 4$ or $z-x = 4$

II:

$\frac{1}{3} \times y = 18$

$Y = 54$

4. **Find the time taken by a boatman to travel a distance of 270 Km downstream, where downstream speed of boatman is 300% of upstream speed of boatman. Speed of stream is 15Kmph.**

A   5 Hr.

B   **6 Hr.**

C   7 Hr.

D   7.5 Hr.

E   8 Hr.

Solution

$\dfrac{Downstream\ speed}{upstream\ speed} = \dfrac{3}{1}$

Downstream speed $= 3x$

Upstream speed $= x$

Stream speed $= \dfrac{(3x - x)}{2} = \dfrac{2x}{2} = x$

$X = 15$ ....given

Downstream speed $= 3 \times 15 = 45\ kmph$

Time taken $= \dfrac{270}{45} = 6\ hr$