Banking Daily Quiz Blog - November 21

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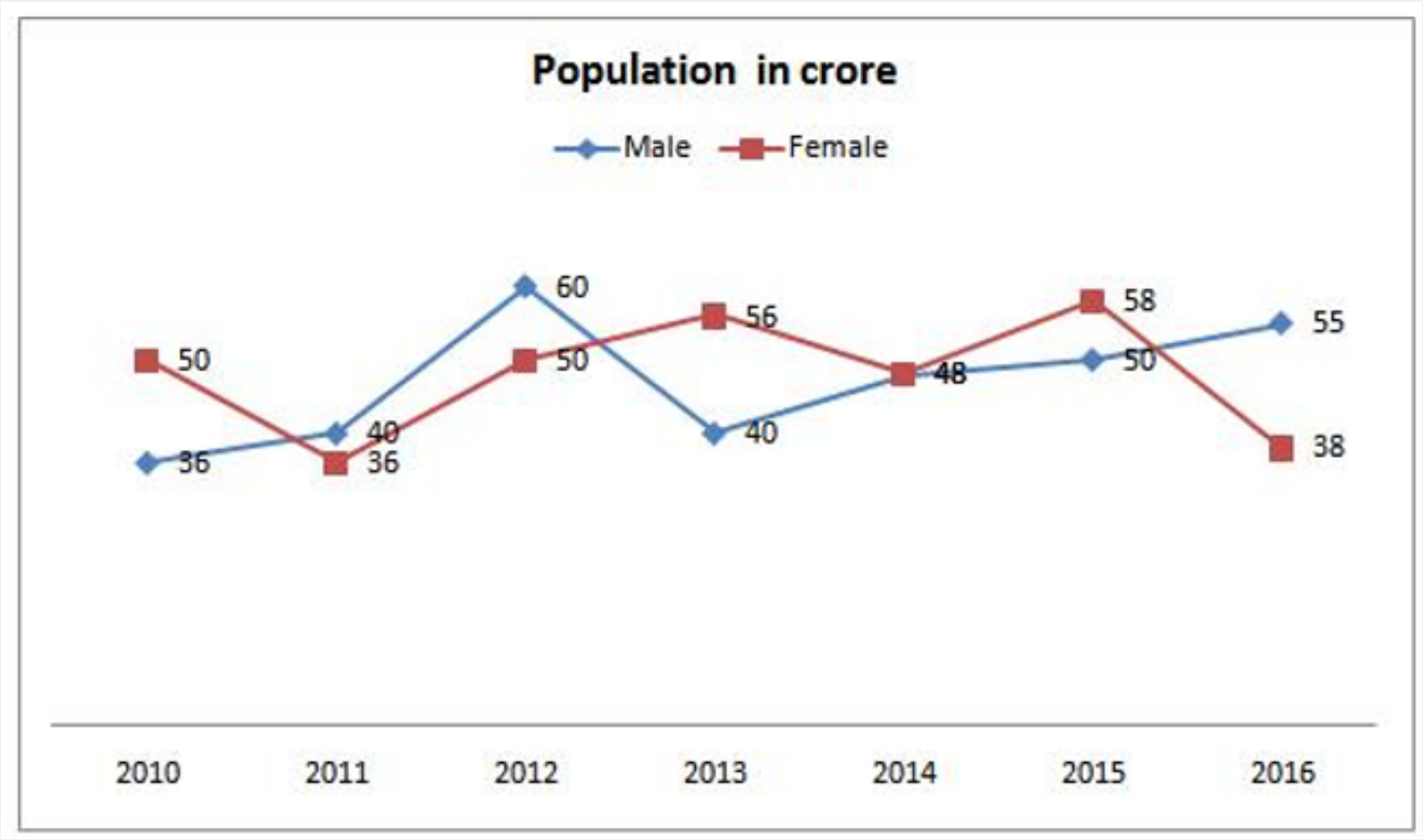
1. **Read the instruction carefully and answer the questions based on it.**

According to the population census, the population (in crores) of male and female of Ranchi over the year is shown in the line graph:



A. **In 2013 the population of female was what percentage more than that of male in the same year?**

A 40%

B 45%

C 58%

D 52%

E 55%

Solution

The required percentage $= (\frac{56-40)}{40}) \times 100\%$

$= \frac{16}{40} \times 100\% = 40\%$

B. What is the approximate percentage of population of the female to the total population?

A 40%

B 45%

C 50%

D 57.5%

E 60%

Solution

Total population of male $= 36 + 40 + 60 + 40 + 48 + 50 + 55 = 329$

Total population of female $= 50 + 36 + 50 + 56 + 48 + 58 + 38 = 336$

And total population: $= 329 + 336 = 665$

Thus the required percentage $= (\frac{336}{665}) \times 100\% = 50.52\% \approx 50\%$

C. **What is the difference between the average population (in crores) of male and that of female?**

A **1 Crore**

B 1.2 Crore

C 1.5 Crore

D 2 Crore

E None of these

Solution

Total population of male $= 36 + 40 + 60 + 40 + 48 + 50 + 55 = 329$

Average $= 47$

Total population of female

$= 50 + 36 + 50 + 56 + 48 + 58 + 38 = 336,$

Average $= \frac{336}{7} = 48$

Thus, the required difference $= (48 - 47) = 1\ crore$

D. **In which year was the percentage rise of population of male was maximum compared to its population of previous year?**

A 2011

B 2012

C 2013

D 2014

E 2015

Solution

$2011 = \frac{(40-36)}{36} \times 100\% = 11.11\%$

$2012 = \frac{(60-40)}{40} \times 100\% = 50\%$

$2013 = \frac{(60-40)}{60} \times 100\% = 33.33\% \; decreases$

$2014 = \frac{(48-40)}{40} \times 100\% = 20\%$

$2015 = \frac{(50-48)}{48} \times 100\% = 4.17\%$

$2016 = \frac{(55-50)}{50} \times 100\% = 10\%$

In the year 2012 has maximum male percentage

E. The population of female in year 2011 was what percentage of the population of male in the same year?

A 90%

B 95%

C 97%

D 91%

E None of these

Solution

The required percentage $= \frac{36}{40} \times 100 = 90\%$

2. **Prem had borrowed some amount from Bharat on simple interest of 20% per annum. After 3 years, he returned the loan and interest by paying 240000. How much interest did Prem pay to Bharat?**

A Rs. 80000

B Rs. 85000

C **Rs. 90000**

D Rs. 98200

E Rs. 92500

Solution

Let the amount borrowed by Prem be P.

$\frac{(P \times 20 \times 3)}{100} = 240000 - P$

$\frac{3P}{5} + P = 240000$

$\frac{8P}{5} = 240000$

$P = 150000$

Interest paid by Prem to Bharat $= 240000 - 150000 = 90000$

3. **Gautam travelled from his home to office at the rate of 30 kmph and comes back home at 24 kmph. If he covers the whole journey in 1 hour 48 minutes, what is the total distance travelled by him?**

A 40 Km

B 42 Km

C 45 Km

D **48 Km**

E 50 Km

Solution

Let the distance between his office and home be D.

$\frac{D}{30} + \frac{D}{24} = 1 + \frac{48}{60} = \frac{9}{5}$

$\frac{54D}{(30 \times 24)} = \frac{9}{5}$

$D = 24$ km

Total distance he travelled $= 2D = 48\ km$

4. **8 girls and 12 boys can complete a work in 4 days. If one boy alone completes the work in 60 days, then in how many days a girl will be able to finish the same work alone?**

A 150 days

B 155 days

C **160 days**

D 170 days

E 175 days

Solution

Work done by 1 boy in 1 day $= \frac{1}{60}$

Work done by 12 boys in 1 day $= \frac{12}{60} = \frac{1}{5}$

Work done by 12 boys in 4 days $= \frac{4}{5}$

In 4 days they will complete $\frac{4}{5}$ of work, so 8 girls will finish $\frac{1}{5}$ of work in 4 days.

So 1 girl will finish $\frac{1}{40}$ of work in 4 days

Therefore, a girl alone will finish the work in 160 days.

5. **In three mixtures, water and spirit is in the ratio of 2: 3, 1: 3 and 2: 5 respectively. If all three mixtures are mixed in the ratio of 1: 3: 2 respectively, then what will be the ratio of water and spirit in the resulting mixture?**

A **241:599**

B 243:587

C 239:541

D 231:531

E 245:281

Solution

Let the volume of three mixtures be n, 3n and 2n liter respectively.

Hence volume of water in the resulting mixture

$= (n \times \frac{2}{5} + 3n \times \frac{1}{4} + 2n \times \frac{2}{7})$

$= \frac{2n}{5} + \frac{3n}{4} + \frac{4n}{7} = \frac{241n}{140}$

Volume of spirit in the resulting mixture $= (n \times \frac{3}{5} + 3n \times \frac{3}{4} + 2n \times \frac{5}{7})$

$= \frac{3n}{5} + \frac{9n}{4} + \frac{10n}{7} = \frac{599n}{140}$

Therefore required ratio $= \frac{241n}{140} : \frac{599n}{140} = 241 : 599$

6. **A mixture of 240 litres contains milk and water in the ratio of 5:3. A milkman mixes some more water in it and claim to sell it at cost price and water is freely available and milkman made a total profit of 80% on cost price of pure milk then find amount of water he mixed in the milk.**

A 24 L

B 25 L

C 28 L

D **30 L**

E 32 L

Solution

Milk $= 150\ lit$

Water $= 90\ lit$

Let price be 1Rs/ltr of milk,

SP of Mixture $= 150 \times \frac{180}{100} = Rs.\ 270$

Price = 1rs for 1 lit &he sold 270 litres

Hence, Water Added $= 270 - 240 = 30\ litres$

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