

## SBI PO Numerical Ability Questions and Solutions

1. **16 15 20 ? 102 221**

1. 41
2. 34
3. 43
4. 36
5. None of these

**Answer - 3. 43**

**Explanation:**

$$16+(13 - 2) = 15$$

$$15+(23 - 3) = 20$$

$$20+(33 - 4) = 43\text{.....}$$

2. **27 48 84 145 ?**

1. 201
2. 221
3. 231
4. 241
5. None of these

**Answer - 4. 241**

**Explanation :**

$$27+21 = 48$$

$$48+36 = 84 \text{ see d 2nd term } 21+15 = 36$$

$$84+61 = 145 \text{ } 36+25 = 61$$

$$145+96 = 241 \text{ } 61+35 = 96$$

3. **0 6 24 ? 120 210**

1. 40
2. 60
3. 80
4. 90
5. None of these

**Answer - 2. 60**

**Explanation:**

$$0+6(1*6) = 6$$

$$6+18(3*6) = 24$$

$$24+36 (6*6)= 60$$

$$60+60 (10*6)= 120$$

$$120+90(15*6) = 210$$

4. **1 2 5 26 ? 458330**

1. 675
2. 676
3. 677
4. 678
5. None of these

**Answer - 3. 677**

**Explanation:**

$$1^2+1 = 2$$

$$2^2+1 = 5$$

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$$5^2+1 = 26$$

$$26^2+1 = 677$$

$$677^2+1 = 458330$$

5. **6 7 11 20 36 ?**

1. 61

2. 62

3. 64

4. 66

5. None of these

**Answer - 1. 61**

**Explanation:**

$$6+1^2 = 6+1 = 7$$

$$7+2^2 = 7 + 4 = 11$$

$$11+3^2 = 11+9 = 20$$

$$20+4^2 = 20+16 = 36$$

$$36+5^2 = 36+25 = 61$$

6. **135 99 ? 45 27 15 9**

1. 65

2. 66

3. 67

4. 69

5. None of these

**Answer – 4. 69**

**Explanation:**

$$9+6 = 15$$

$$15+12 = 27$$

$$27+18 = 45$$

$$45+24= 69$$

$$69+30= 99$$

$$99+36= 135$$

7. **4 20 84 340 1364 ?**

1. 5260

2. 5460

3. 5468

4. 5789

5. None of these

**Answer - 2. 5460**

**Explanation:**

$$4+16 = 20$$

$$20+64 = 84$$

$$84+256 =340$$

$$340+1024 = 1364$$

$$1364+4096 = 5460$$

8. **17 14 15 12 13 ?**

1. 8

2. 9

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3. 10  
 4. 11  
 5. None of these

**Answer - 3. 10**

**Explanation:**

- 17- 2 = 15.....(1 & 3 Term)  
 14 - 2 = 12.....(2 & 4 Term)  
 12 - 2 = 10.....(4 & 6 term)

9. **5 8 11 16 ? 22 27**

1. 17  
 2. 19  
 3. 21  
 4. 23  
 5. None of these

**Answer – 2. 19**

**Explanation:**

- 5+3 =8  
 8+3 = 11  
 11+5 = 16  
 16+3 = 19  
 19+3 = 22  
 22+5 = 27

10. **20 19 17 18 15 14 13 ?**

1. 12  
 2. 13  
 3. 14  
 4. 15  
 5. None of these

**Answer – 3. 14**

**Explanation:**

- 20 - 1 = 19  
 17 + 1 = 18  
 15 - 1 = 14  
 13 + 1 = 14

**Direction: (Q. 11-15). Refer the table and answer the given questions.**

Total Population in Five Cities = 30,00,000

Cities	Total Population(In Lakhs)	Rural: Urban	Male: Female	Literate: Illiterate	% of Graduate out of the total population
Mumbai	–	6:7	11:7	3:2	–

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<b>Chennai</b>	6.15	–	7:3	–	55
<b>Hyderabad</b>	–	7:3	–	7:9	–
<b>Bangalore</b>	4.80	–	9:7	–	65
<b>Kolkata</b>	–	3:5	–	2:3	–

**11. The total population of Mumbai and Hyderabad is 12,25,000. The difference between the total population of Mumbai and Hyderabad is 55000. If the Hyderabad has more population than Mumbai then the urban population of Mumbai and Hyderabad together is approximately what percent of the total population of these two Cities?**

1. 36%
2. 41%
3. 54%
4. 62%
5. 65%

**Answer – 2. 41%**

**Explanation:**

$$\text{Mumbai} + \text{Hyderabad} = 12,25,000$$

$$\text{Hyderabad} - \text{Mumbai} = 55000$$

$$\text{Hyderabad} = 640000; \text{Mumbai} = 585000$$

$$\text{Urban population of Mumbai and Hyderabad} = \frac{7}{13} * 585000 + \frac{3}{10} * 640000 = 507000$$

$$\text{Percentage} = \left( \frac{507000}{12,25,000} \right) * 100 = 41\%$$

**12. If the population of Mumbai is 105000 more than Bangalore then approximately, by what percent of the urban population of Mumbai less than its Rural population?**

1. 15%
2. 17%
3. 25%
4. 28%
5. None of the Above

**Answer – 2. 17%**

**Explanation:**

$$\text{Mumbai} = 105000 + 480000 = 585000$$

$$\text{Rural Population} = \frac{6}{13} * 585000 = 270000$$

$$\text{Urban Population} = \frac{7}{13} * 585000 = 315000$$

$$\text{Percentage} = \left( \frac{\text{Difference}}{\text{Rural Population}} \right) * 100 = \left( \frac{45000}{270000} \right) * 100 = 17\%$$

**13. One – fourth of the total population of Hyderabad is 1,60,000. If the total number of Literate in Chennai and Bangalore are 48% and 44% of their population. The total number of literates in these cities is approximately what percentage compared to the total population of the same?**

1. 30%
2. 35%
3. 40%

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4. 45%

5. 0%

**Answer – 4. 45%**

**Explanation:**

$1/4 * \text{Hyderabad} = 1,60,000 \Rightarrow \text{Hyderabad} = 6,40,000$

Literate population of Hyderabad =  $7/11 * 6,40,000 = 2,80,000$

Literate population of Chennai = 295200

Literate population of Bangalore = 211200

Total number of Literate = 786400

A total population of three = 1735000

Percentage =  $786400/1735000 * 100 = 45\%$

**14. What are the sum of the male population in Chennai and the female population in Bangalore together?**

1. 5,70,000

2. 6,20,500

3. 6,40,500

4. 6,60,000

5. None of the Above

**Answer – 3. 6,40,500**

**Explanation:**

Sum =  $7/10 * 615000 + 7/16 * 480000 = 430500 + 210000 = 640500$

**15. If the percentage of literate graduates in Hyderabad is 1/5 th of literate graduates in Chennai then what is the difference between the number of literate graduates from Bangalore and Hyderabad?**

1. 234550

2. 243550

3. 244350

4. 255340

5. 255550

**Answer – 3. 244350**

**Explanation:**

Literate graduates in Hyderabad =  $1/5 * \text{literate graduates in Chennai}$

Literate graduates in Chennai =  $55/100 * 615000 = 338250$

Literate graduates in Hyderabad =  $1/5 * 338250 = 67650$

Literate graduates in Bangalore =  $65/100 * 480000 = 312000$

Diff =  $312000 - 67650 = 244350$ .

**16.  $120.009 + 59.999 - 104.679 = ?$**

1. 85.349

2. 75.329

3. 54.324

4. 67.896

5. None of these

**Answer – 2. 75.329**

**Explanation:**

$180.008 - 104.679 = 75.329$

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17.  $2\sqrt{2 \times 3} \sqrt{3 \times 5} \sqrt{2 \times 9} \sqrt{3} = ?$

1. 1874
2. 1340
3. 1620
4. 2140
5. None of these

**Answer – 3. 1620**

**Explanation :**

$$270 \times 2 \times 3 = 1620$$

18.  $(19 \times 75.4 \div 0.2) \div 13 + 67 = ?$

1. 1056
2. 981
3. 564
4. 618
5. None of these

**Answer – 4. 618**

**Explanation :**

$$(19 \times 377) \div 13 + 67$$

$$= 7163 \div 13 + 67$$

$$= 551 + 67 = 618$$

19.  $4(1/2) + [1 \div 2(8/9)] - 3(1/13) = ?$

1. 23/13
2. 13/23
3. 12/25
4. 17/23
5. None of these

**Answer – 1. 23/13**

**Explanation :**

$$= 9/2 + 9/26 - 40/13$$

$$= 117/26 + 9/26 - 80/26$$

$$= 46/26 = 23/13$$

20.  $[\sqrt{1089 \times 11^2}] \div 2^3 = ? \times 100$

1. 7
2. 6
3. 5
4. 4
5. None of these

**Answer – 3. 5**

**Explanation :**

$$33 \times 121 = 3993/8 = 499.12 = 500 = 5 \times 100$$

21.  $24^2 - 6^3 + \sqrt{625} + 56 = ?^2$

1. 29
2. 31
3. 21
4. 19
5. None of these

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**Answer – 3. 21**

**Explanation :**

$$576-216 + 25 + 56$$

$$360+25+56 = 441 = 21*21$$

22. **36% of 945 – 26% of 765 + 17.7 = ?**

1. 159
2. 143
3. 167
4. 187
5. None of these

**Answer – 1.159**

**Explanation:**

$$340.2 - 198.9 = 141.3 + 17.7 = 159$$

23.  **$\sqrt{(456 \div 12 + 142 - 11)} = ?$**

1. 13
2. 11
3. 169
4. 23
5. None of these

**Answer – 1. 13**

**Explanation :**

$$38 + 142 - 11 = 169 = 13 * 13 = 13^2 = \sqrt{13^2} = 13.$$

24.  **$(5/22)$  of 2706 + 10 = ? \* 25**

1. 125
2. 5
3. 25
4. 10
5. None of these

**Answer – 3. 25**

**Explanation:**

$$123 * 5 = 615 + 10 = 625 = 25 * 25$$

25.  **$1(1/5)$  of  $1(1/2)$  of ? = 216**

1. 140
2. 120
3. 100
4. 125
5. None of these

**Answer – 2. 120**

**Explanation :**

$$6/5 * 3/2 * x = 216$$

$$X = 216 * 2 * 5 / 6 * 3 = 2160 / 18 = 120$$

26.  **$(102.09 - 56.32 + 78.76) \times 11 = 370 + ?$**

1. 1000
2. 100
3. 1100
4. 1150

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**Answer - 1. 1000**

**Explanation:**

$$124.53 \times 11 = 1369.83 = 1370$$

**27.  $1019 \times 5.04 + 237 - 302.11 = ?$**

1. 5030
2. 6064
3. 5070
4. 5078

**Answer - 3. 5070**

**Explanation:**

$$5135.76 + 237 = 5372.76$$

$$5372.76 - 302.11 = 5070.65$$

**28.  $111.111 \times 200.002 \times 0.001 = ?$**

1. 24.4222
2. 22.2224
3. 20.2224
4. 12.6548

**Answer: 2. 22.2224**

**Explanation:**

$$111.111 \times 200.002 = 22222.42$$

$$22222.42 \times 0.001 = 22.2224$$

**29.  $57\% \text{ of } 9877 + 27\% \text{ of } 8473 = ?$**

1. 7654.5
2. 7245.7
3. 7200.7
4. 7917.6

**Answer - 4. 7917.6**

**Explanation:**

$$5629.89 + 2287.71 = 7917.6$$

**30.  $5, 15, 65, 315, ?$**

1. 1556
2. 1565
3. 1665
4. 1656

**Answer - 2. 1565**

**Explanation :**

$$5 \times 5 - 10 = 25 - 10 = 15$$

$$15 \times 5 - 10 = 75 - 10 = 65$$

$$65 \times 5 - 10 = 325 - 10 = 315$$

$$315 \times 5 - 10 = 1575 - 10 = 1565$$

**31. Ram, Shyam & Mahesh have total of 36 balls. Ram says Shyam that I give you 5 balls, you give 2 balls to Mahesh & Mahesh will give me 5 balls, so you will have double balls than Mahesh has & I will have three times of no. of balls you have. How many balls did Ram have in the beginning?**

1. 16
2. 15



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3. 28

4. 24

**Answer - 4. 24**

**Explanation:**

The balls did Ram have in the beginning are 24

**32.** A man has a fruit basket, full of 60 fruits. No. of apples is half of the no. of mangoes. Oranges are one-fourth of total no. of apples & mangoes. What is the no. of mangoes in the basket?

1. 30

2. 32

3. 16

4. 12

**Answer - 2. 32**

**Explanation:**

The number of mangos in the basket are 32

**33.** 60 sec. time is taken to fire 11 bullets from a gun, then how much time will be taken to fire 8 bullets?

1. 30 seconds

2. 42 seconds

3. 50 seconds

4. None of these

**Answer - 2. 42 seconds**

**Explanation:**

The time taken to fire 8 bullets is 42 seconds

**34.** A group of animals contains some deer & some hens. Total no. of their heads is 15 & total no. of their legs is 50. Find no. of deer in the group.

1. 5

2. 8

3. 7

4. 10

**Answer - 4. 10**

**Explanation:**

According to the analysis, the number of deer in the group is 10.

**35.** 15 children or 12 persons can go using a lift. How many children can go with 8 persons?

1. 5

2. 6

3. 7

4. 8

**Answer - 1. 5**

**Explanation:**

There is only 5 children to go with 8 persons