

Quiz Date: 1st September 2020

Directions (1-5): The following pie chart shows the angular distribution of weapons bought by India from Russia. Study the graph carefully to answer the following questions.



Q1. Total number of AK – 47 and hand grenade together bought by India from Russia is what percent of total number of AK-56 and Missiles together?

- (a) 110%
- (b) 120%
- (c) 140%
- (d) 130%
- (e) 125%

Q2. What is the average number of Pistols, Hand grenade and missiles together bought by India from Russia?

- (a) 5400
- (b) 5600
- (c) 7800
- (d) 4800
- (e) 6400

Q3. What is the ratio of number of Pistols and AK-56 together to the total number of AK-47 and hand-grenade?

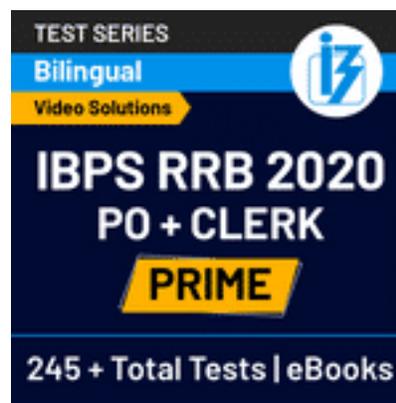
- (a) 3: 4
- (b) 3: 2
- (c) 2: 3
- (d) 4: 3
- (e) 4: 5

Q4. If total cost of missiles and AK-56 to India was Rs. 720 crores, then what was the price of one AK-56 rifle. It is given that ratio of price of one missile to one AK-56 is 3 : 1.

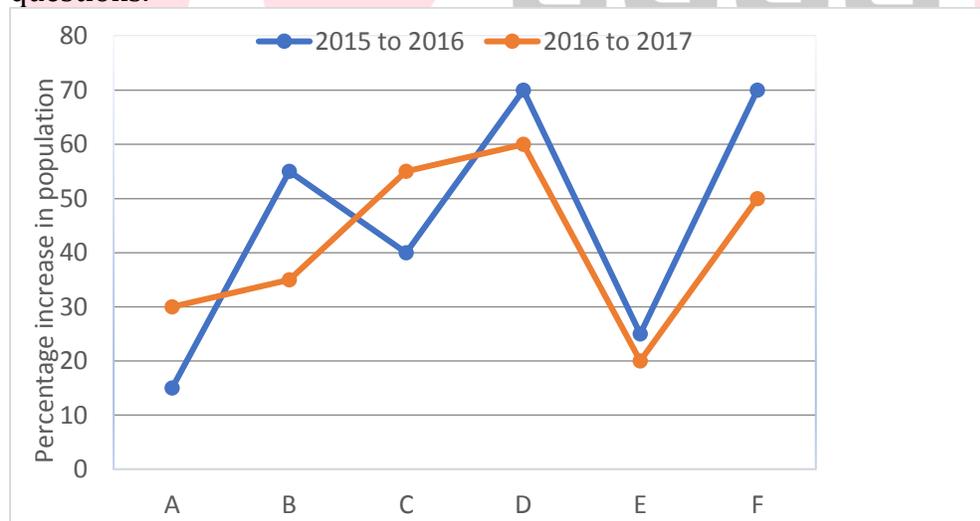
- (a) 1.4 lacs
- (b) 2.66 lacs
- (c) 2.4 lacs
- (d) 1 lac
- (e) 2.2 lacs

Q5. What is the difference between total number of AK-47 and AK-56 weapons together and total number of rest weapons together?

- (a) 3000
- (b) 4800
- (c) 3200
- (d) 3600
- (e) 2800



Directions (6-10): Given below is the line graph in which blue line shows the percentage increase in year 2016 with respect to year 2015 and red line shows the percentage increase in year 2017 with respect to year 2016. Study the graph carefully to answer the following questions.



Q6. If in year 2015 population of city A and city F are in the ratio 17 : 13. What is the ratio of population of city F to the population of city A in year 2017.

- (a) 30 : 23

- (b) 17 : 13
- (c) 14 : 27
- (d) 29 : 21
- (e) None of these

Q7. Population of city D in year 2016 is equal to the population of city C in year 2015. What is population of city C in year 2016 if population of city D in year 2017 is 54400.

- (a) 48,600
- (b) 47,600
- (c) 49,000
- (d) 51,000
- (e) 53,600

Q8. If the difference of the population of city E in year 2015 to year 2017 is 7000, then find out the difference in the population of the city B in year 2015 to year 2017 if ratio of population of city B and population of city E in 2015 is 5 : 7.

- (a) 12,510
- (b) 10,510
- (c) 12,925
- (d) 10,925
- (e) 14,510

Q9. Average population of city F in all three years i.e. year 2015, 2016 and 2017 together are 17500. What is the population of city F in 2017.

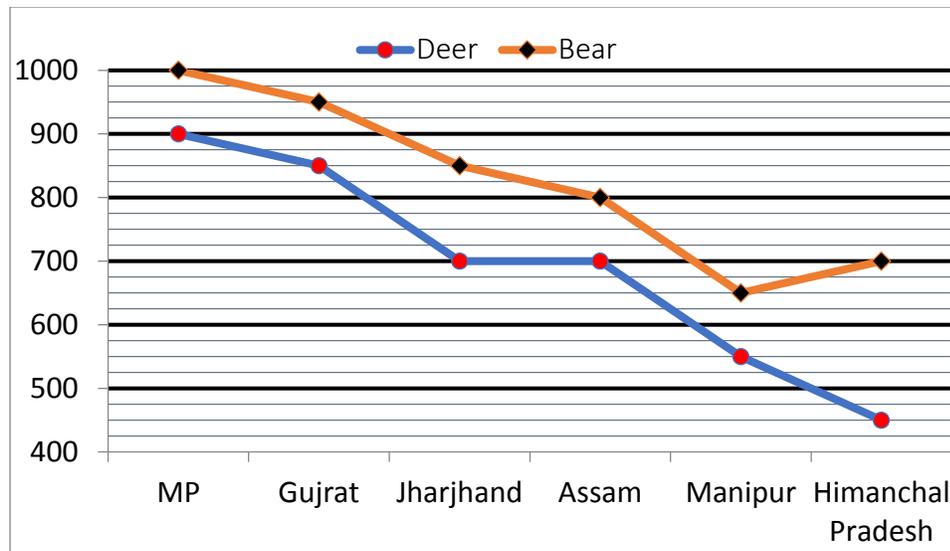
- (a) 25,500
- (b) 31,500
- (c) 25,000
- (d) 10,000
- (e) None of these

Q10. If the population of C in 2015 and population of city F in 2016 are in the ratio of 25 : 34. The population of city C in 2016 is what percent more than the population of city F in 2015.

- (a) 80%
- (b) 70%
- (c) 65%
- (d) 60%
- (e) 75%

Directions (11-15): The following line graph shows the total no. of deer and bear in six different states of India.

Study the graph carefully and answer the following questions.



Q11. Total no. of deer in Assam is what percent more/ less than total no. of deer in Gujarat ?

- (a) $18\frac{13}{17}\%$
 (b) $17\frac{11}{17}\%$
 (c) 19%
 (d) $21\frac{9}{17}\%$
 (e) None of these

Q12. What is the average no. of total bear in all the six states together?

- (a) 825
 (b) 950
 (c) 850
 (d) 770
 (e) None of these

Q13. What is the difference between total no. of bear and total no. of deer in all the states together?

- (a) 850
 (b) 800
 (c) 750
 (d) 725
 (e) None of these

Q14. The no. of deer in MP and Gujrat together is approximate what percent more or less than the no. of bear in the same states together?

- (a) 4% more
 (b) 12% less
 (c) 10% less
 (d) 8% less
 (e) 14% less

Q15. If number Of deer in Maharashtra is 10% more than that in Himanchal Pradesh, then what will be the ratio of no. of deer in Maharashtra to that of the deer in Gujrat?

- (a) 99 : 170
 (b) 170 : 99
 (c) 133 : 140
 (d) 211 : 95
 (e) None of these

Solutions

S1. Ans.(b)

Sol.

Total no. of AK-47 and Hand grenades together

$$= \frac{(108+72)}{360} \times 36,000$$

$$= 18000$$

Total no. of AK-56 and missiles together

$$= \frac{(90+60)}{360} \times 36000$$

$$= 15,000$$

$$\therefore \text{Required percentage} = \frac{18000}{15000} \times 100 = 120\%$$



S2. Ans.(a)

Sol.

$$\text{Required average} = \frac{1}{3} \times \frac{(30+72+60)}{360} \times 36000 = 5,400$$

S3. Ans.(c)

Sol.

$$\text{Required ratio} = \frac{30+90}{108+72} = \frac{120}{180} = \frac{2}{3}$$

S4. Ans.(b)

Sol.

Let price of one AK-56 and one missile is x and 3x respectively.

$$\therefore x \times 9000 + 3x \times 6000 = 720 \text{ crores}$$

$$27x = 72,00,000$$

$$x = 2.66 \text{ lacs}$$

S5. Ans.(d)

Sol.

$$\text{Required difference} = \frac{((108+90)-(60+30+72))}{360} \times 36000 = 3600$$

S6. Ans.(a)

Sol.

Let population of city A and city F are $17x$, $13x$ respectively.

Now population of city F in 2017

$$= 13x \times \frac{150}{100} \times \frac{170}{100}$$

Population of city A in 2017

$$= 17x \times \frac{115}{100} \times \frac{130}{100}$$

Required ratio

$$= \frac{13x \times 150 \times 170}{17x \times 115 \times 130} = 30 : 23$$

S7. Ans.(b)

Sol.

Population of city D in 2017 = 54400

$$\text{Population of city D in 2016} = 54400 \times \frac{100}{160} = 34000$$

So, population of city C in 2015 = 34,000

Population of city C in 2016

$$= \frac{34000 \times 140}{100} = 47,600$$

S8. Ans.(d)

Sol.

Let population of city E in 2015 = $100x$

So, population of city E in 2017

$$= 100x \times \frac{120}{100} \times \frac{125}{100} = 150x$$

$$\text{Difference} = 150x - 100x = 7000$$

So, population of E in 2015 = 14,000

Population of city B in 2015

$$= \frac{14,000}{7} \times 5 = 10,000$$

$$\text{Required difference} = 10,000 \times \frac{135}{100} \times \frac{155}{100} - 10,000$$

$$= 10925$$

S9. Ans.(a)

Sol.

Let population of city F in 2015 = $100x$

Then population in 2016 = $170x$

Population in 2017 = $255x$

$$\text{Average} = \frac{100x + 170x + 255x}{3} = 17500$$

$$x = 100$$

Population of city F in 2017 = 25,500

S10. Ans.(e)

Sol.

Let population of city C in 2015 and population of city F in 2016 is $25x$ and $34x$ respectively.

Now,

Population of city C in 2016

$$= 25x \times \frac{140}{100} = 35x$$

Population of city F in 2015

$$= 34x \times \frac{100}{170} = 20x$$

$$\text{Required \%} = \frac{(35x - 20x)}{20x} \times 100 = 75\%$$

S11. Ans.(b)

Sol.

Required reduction

$$\frac{850 - 700}{850} \times 100 = 17\frac{11}{17}\%$$

S12. Ans.(a)

Sol.

Required average

$$= \frac{1}{6} \times (1000 + 950 + 850 + 800 + 650 + 700)$$

$$= 825$$

S13. Ans.(b)

Sol.

Required difference

$$= (1000 + 950 + 850 + 800 + 650 + 700) - (900 + 850 + 700 + 700 + 550 + 450)$$

$$= 4950 - 4150$$

$$= 800$$

S14. Ans.(c)

Sol.

Required percentage

$$\begin{aligned} &= \frac{(1000 + 950) - (900 + 850)}{1000 + 950} \times 100 \\ &= \frac{200}{1950} \times 100 \\ &\approx 10\% \text{ less (approximately)} \end{aligned}$$

S15. Ans.(a)

Sol.

Deer in Maharashtra

$$= 450 \times \frac{110}{100}$$

$$= 495$$

∴ Required ratio

$$= 495 : 850$$

$$= 99 : 170$$

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