

Quiz Date: 12th August 2020

Directions (1-5): The following table shows the no. of cyberattack on various agencies in five different years. Study the table carefully and answers the question that follow:

Years	RAW	CIA	ISIS	NATO
2005	4500	3600	4800	32000
2006	4000	2400	4000	2400
2007	3000	1800	4200	2000
2008	2500	1200	5000	1600
2009	2000	800	3000	1200

Q1. What is the average of no. of cyberattacks on CIA in all the five years?

- (a) 1960
- (b) 1650
- (c) 1860
- (d) 1690
- (e) 1560

Q2. Total no. of cyberattacks held on RAW agency in 2005 and 2008 together is what percent of total cyberattacks held on ISIS in 2006?

- (a) 125%
- (b) 150%
- (c) 175%
- (d) 75%
- (e) 275%

Q3. In 2010, RAW had reduced no. of cyberattacks on it by 25% than that in previous year by introducing new security system. What is the total no. of cyberattacks on RAW in the years 2008, 2009, and 2010 together?

- (a) 5,000
- (b) 6,000
- (c) 6,400
- (d) 8,000
- (e) 4,000

Q4. What is the difference between total number of cyberattacks on all agencies together in 2006 and that in 2008?

- (a) 3,000
- (b) 3,500
- (c) 2,800

- (d) 2,500
(e) 2,000

Q5. Total no. of cyberattacks on CIA and ISISI together in 2007 is what percent more or less than that on RAW and NATO together in the same year?

- (a) 20% less
(b) 25% less
(c) 20% more
(d) 30% more
(e) 25% more

Directions (6-10): Table given below shows the distribution of three types of car in five different cities in year 2016.

Note: Total cars in any city = Swift + Tata Nano + Hyundai

Cities	Swift	Tata Nano	Hyundai
Lucknow	4400	20%	25%
Bhopal	30%	35%	6300
Delhi	6120	24%	25%
Mumbai	25%	2700	21%
Chennai	44%	3600	32%

Q6. Total number of Swift cars in Bhopal and Mumbai together is what percent more or less than total number of Hyundai cars in Lucknow and Delhi together?

- (a) 47%
(b) 37%
(c) 33%
(d) 43%
(e) 27%

Q7. Male drivers who drives Swift in city Bhopal are 25% more than female drivers who drives Swift in city Bhopal. Find total number of male drivers who drives Swift in city Bhopal if there are only male and female drivers?

- (a) 2400
(b) 3000
(c) 2800
(d) 3500
(e) 3800

Q8. Find the average number of Swift cars in all the five cities together?

- (a) 4754

- (b) 4735
- (c) 4745
- (d) 4477
- (e) 4574

Q9. If in year 2017, Swift cars and Hyundai cars in city Mumbai increases by 20% and $14\frac{2}{7}\%$ respectively as compare to previous year, then find total number of Swift and Hyundai cars in city Mumbai in year 2017.

- (a) 2200
- (b) 2400
- (c) 2500
- (d) 2600
- (e) 2700

Q10. Total number of Tata Nano cars in Delhi and Mumbai together is how much more or less than total number of Hyundai cars in Mumbai and Chennai together.

- (a) 370
- (b) 290
- (c) 270
- (d) 220
- (e) 240

Directions (11-15): The following table shows the total no. Of persons in two different states of India who were appointed as workers in PWD in Five different years and also ratio of male to Female among them (ratio is same for both the states). Study the table carefully and answer the following questions.

Years	MP	ASSAM	Ratio Male: Female
2007	15450	12,500	4 : 1
2008	20,400	16,400	3 : 1
2009	24,540	20,000	7 : 3
2010	30,400	25,600	5 : 3
2011	32,400	31,500	2 : 1

Q11. The no. Of female workers from Assam in 2011 is approximately what percent of no. Of female workers from MP in the same year?

- (a) 95%
- (b) 97%
- (c) 113%
- (d) 99%
- (e) 109%

Q12. What is the total no. of male workers appointed in both states together in the years 2007, 2008 and 2009 together?

- (a) 82,138
- (b) 83,238
- (c) 81,138
- (d) 81,670
- (e) 84,450

Q13. The no. Of female workers from Assam in year 2009 is approximately what percent less than the no. Of male workers form MP in the same year?

- (a) 65%
- (b) 75%
- (c) 85%
- (d) 55%
- (e) 91%

Q14. What is the average no. of male workers from both states in years 2008 and 2010 together?

- (a) 28,400
- (b) 29,500
- (c) 32,600
- (d) 31,300
- (e) 36,400

Q15. What is the difference between no. of male workers from MP in 2007 and 2009 together and no. of female workers in 2008 and 2010 in MP together?

- (a) 13,178
- (b) 13,038
- (c) 13,098
- (d) 13,228
- (e) 13,348

Solutions

S1. Ans.(a)

Sol.

Required average

$$= \frac{1}{5} \times (3,600 + 2,400 + 1,800 + 1,200 + 800)$$

$$= \frac{1}{5} \times 9,800 = 1,960$$

S2. Ans.(c)

Sol.

Total cyberattacks on RAW in 2005 & 2008 together
= 4500 + 2500 = 7,000

Total cyberattacks on ISISI in 2006 = 4000

$$\begin{aligned}\therefore \text{Required percentage} &= \frac{7000}{4000} \times 100 \\ &= \frac{700}{4} \\ &= 175\%\end{aligned}$$

S3. Ans.(b)

Sol.

Required answer

$$= 2500 + 2000 + \frac{75}{100} \times 2000 = 6,000$$

S4. Ans.(d)

Sol.

Total cyberattacks in 2006

$$= (4000 + 2400 + 4000 + 2400) = 12,800$$

Total cyberattacks in 2008

$$= (2500 + 1200 + 5000 + 1600) = 10,300$$

$$\text{Required difference} = 12,800 - 10,300 = 2,500$$

S5. Ans.(c)

Sol.

Total cyberattacks on CIA and ISISI together in 2007

$$= 1800 + 4200 = 6,000$$

Total cyberattacks on RAW and NATO together in 2007

$$= 3000 + 2000 = 5,000$$

$$\therefore \text{Required \%} = \frac{6000-5000}{5000} \times 100 = 20\% \text{ more}$$

S6. Ans.(c)

Sol.

Swift cars in Bhopal and Mumbai together

$$= \frac{6300}{35} \times 30 + \frac{2700}{54} \times 25$$

$$= 5400 + 1250$$

$$= 6650$$

Hyundai cars in Lucknow and Delhi together

$$= \frac{4400}{55} \times 25 + \frac{6120}{51} \times 25$$

$$= 2000 + 3000$$

$$= 5000$$

Required %

$$= \frac{6650 - 5000}{5000} \times 100 = \frac{1650}{5000} \times 100 = 33\%$$

S7. Ans.(b)

Sol.

Let, female driver who drives Swift in city Bhopal = x

⇒ Male driver who drives Swift in city Bhopal = 1.25x

Total number of Swift cars in city Bhopal

$$= \frac{6300}{35} \times 30 = 5400$$

ATQ,

$$x + 1.25x = 5400$$

$$\Rightarrow 2.25x = 5400$$

$$\Rightarrow 1.25x = \frac{5400}{2.25} \times 1.25 = 3000$$

⇒ Male driver who drives Swift in city Bhopal = 1.25x = 3000

S8. Ans.(a)

Sol.

Total number of Swift cars in all the five cities together

$$= 4400 + \frac{6300}{35} \times 30 + 6120 + \frac{2700}{54} \times 25 + \frac{3600}{24} \times 44$$

$$= 4400 + 5400 + 6120 + 1250 + 6600 = 23,770$$

$$\text{Required average} = \frac{23770}{5} = 4754$$

Sol.

S9. Ans.(e)

Sol.

Total number of Swift and Hyundai cars
in city Mumbai in year 2017

$$= \frac{2700}{54} \times 25 \times \frac{120}{100} + \frac{2700}{54} \times 21 \times \frac{8}{7}$$

$$= 1500 + 1200 = 2700$$

S10. Ans.(c)

Sol.

Tata Nano cars in Delhi and Mumbai together

$$= \frac{6120}{51} \times 24 + 2700$$

$$= 2880 + 2700$$

$$= 5580$$

Hyundai cars in Mumbai and Chennai together

$$= \frac{2700}{54} \times 21 + \frac{3600}{24} \times 32$$

$$= 1050 + 4800$$

$$= 5850$$

$$\text{Required number} = 5850 - 5580 = 270$$

S11. Ans.(b)

Sol.

$$\text{Required percentage} = \frac{\frac{1}{3} \times 31,500}{\frac{1}{3} \times 32,400} \times 100$$

$$\approx 97\%$$

S12. Ans.(c)

Sol.

Required total no.

$$= \frac{4}{5} \times 27,950 + \frac{3}{4} \times 36,800 + \frac{7}{10} \times 44,540$$

$$= 22,360 + 27,600 + 31,178$$

$$= 81,138$$

S13. Ans.(a)

Sol.

No. Of female workers in Assam in 2009

$$= \frac{3}{10} \times 20,000$$

$$= 6,000$$

No. Of male workers in MP

$$= \frac{7}{10} \times 24,540$$

$$= 17,178$$

$$\therefore \text{Required percentage} = \frac{17,178 - 6,000}{17,178} \times 100$$

$$\approx 65\%$$

S14. Ans.(d)

Sol.

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$$\begin{aligned}\text{Required average} &= \frac{1}{2} \times \left(\frac{3}{4} \times 36,800 + \frac{5}{8} \times 56,000 \right) \\ &= \frac{1}{2} \times 62,600 \\ &= 31,300\end{aligned}$$

S15. Ans.(b)

Sol.

Total no. Of male workers is MP

$$\begin{aligned}&= \frac{4}{5} \times 15,450 + \frac{7}{10} \times 24,540 \\ &= 29,538\end{aligned}$$

Total no. of female workers in MP

$$= \frac{1}{4} \times 20,400 + \frac{3}{8} \times 30,400 = 16,500$$

$$\begin{aligned}\therefore \text{Required difference} &= 29,538 - 16,500 \\ &= 13,038\end{aligned}$$



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