

Quiz Date: 20th April 2020

Directions (1-5): Read the data carefully and answer the questions.

There are 900 students in school 'X' and they like two Indian cricket players, i.e. either **Virat Kohli** or **M.S. Dhoni**.

The ratio of boys to girls like **M.S. Dhoni** is 13 : 7 and total number of boys like **Virat Kohli** is 30 less than total number of girls like **M.S. Dhoni**. Total number of girls like **Virat Kohli** is 60 less than boys like **Virat Kohli**.

Q1. Find difference between total number of boys like M.S. Dhoni & total number of boys like Virat Kohli?

- (a) 210
- (b) 220
- (c) 225
- (d) 230
- (e) 250

Q2. Find the ratio between total number of Girls Like M.S. Dhoni to total number of Girls Like Virat kohli?

- (a) 8 : 5
- (b) 7 : 4
- (c) 7 : 3
- (d) 7 : 2
- (e) 7 : 9

Q3. Total number of boys like M.S. Dhoni & Virat Kohli together is what percent more than total number of girls like M.S. Dhoni & Virat Kohli together?

- (a) $63\frac{8}{11}\%$
- (b) $65\frac{8}{11}\%$
- (c) $71\frac{8}{11}\%$
- (d) $72\frac{8}{11}\%$
- (e) $75\frac{8}{11}\%$

Q4. In school 'Y' number of boys like M.S. Dhoni and Virat Kohli is $133\frac{1}{3}\%$ & 175% more than total number of girls like M.S. Dhoni & Virat Kohli in school 'X' respectively. Find difference between total number of boys like M.S. Dhoni & Virat Kohli together in school 'X' to total number of boys like M.S. Dhoni & Virat Kohli together in school 'Y'?

- (a) 225
- (b) 220
- (c) 230
- (d) 250
- (e) 260

Q5. Find average number of Boys & girls like M. S. Dhoni?

- (a) 300
- (b) 275
- (c) 320
- (d) 360
- (e) 250

Directions (6-10): What should come in place of the question mark (?) in the following number series?

Q6. 3, 52, 88, 113, 129, ?

- (a) 148
- (b) 142
- (c) 133
- (d) 145
- (e) 138

Q7. 2, 3, 8, ?, 112, 565

- (a) 36
- (b) 14
- (c) 27
- (d) 45
- (e) 54

Q8. 6, 4, 8, 23, ?, 385.25

- (a) 84.5
- (b) 73
- (c) 78.5
- (d) 82
- (e) 86

Q9. 8, 64, 216, 512, ?, 1728

- (a) 729
- (b) 1331
- (c) 684

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- (d) 1000
- (e) 1004

Q10. 1, 1, 2, 6, 24, 120, 720, ?

- (a) 4050
- (b) 5060
- (c) 5040
- (d) 6050
- (e) 4455

Directions (11-15): Data given below gives the information regarding four different products A, B, C and D (in units) sold by a company in year 2014 and 2015. Read the data carefully to answer the following questions.

In 2014 – Ratio of units sold of product A to product D is 2 : 1. Units sold of product C is 144% of units sold of product D. Average number of units sold of product A, C and D is 370 units. Total units sold of product A, B, C and D is 1340 units.

In 2015 – Average number of units sold of product C & D is 475 units. Units sold of product A is 75 units less than the units sold of product D. Units sold of product B is increased by 40% as compared to previous year and average units sold of product B & D is 411 units.

Q11. Find the percentage change in units sold of product A in 2015 as compared to previous year.

- (a) 15% increase
- (b) 15% decrease
- (c) $17\frac{11}{17}$ % increase
- (d) $17\frac{11}{17}$ % decrease
- (e) None of the above.

Q12. Find the ratio of units sold of product A & D together in 2014 to units sold of product C & D together in 2015.

- (a) 15 : 19
- (b) 12 : 17
- (c) 5 : 3
- (d) 9 : 7
- (e) 11 : 6

Q13. Find the difference in average units sold of product A, B, C and D in 2014 and average units sold of product A, B, C and D in 2015.

- (a) 67.25
- (b) 73.25
- (c) 82.25
- (d) 87.25
- (e) 89.25.

Q14. In 2014, selling price of per unit of product D is Rs.12 and selling price of per unit of product B is Rs.15. Find total revenue generated from product B in 2014 is what percent of total revenue generated from product D in 2014?

- (a) 125%
- (b) 145%
- (c) 135%
- (d) 115%
- (e) 105%

Q15. Units sold of product B & C together in 2014 is what percent more than units sold of product - D in 2015?

- (a) 12%
- (b) 30%
- (c) 24%
- (d) 18%
- (e) 36%



S (1-5):

Let total number of boys and girls like M.S. Dhoni is $13x$ & $7x$ respectively

And. Total number of boys like Virat Kohli = $7x - 30$

While total number of girls like Virat Kohli = $7x - 30 - 60 = 7x - 90$

ATQ -

$$13x + 7x + (7x - 30) + (7x - 90) = 900$$

$$34x = 1020$$

$$x = 30$$

Boys like M.S. Dhoni	Girls Like M.S. Dhoni	Boys Like Virat Kohli	Girls like Virat Kohli
$13 \times 30 = 390$	$7 \times 30 = 210$	$7 \times 30 - 30 = 180$	$7 \times 30 - 90 = 120$

S1. Ans(a)

Sol.

$$\text{Required difference} = 390 - 180 = 210$$

S2. Ans(b)

Sol.

$$\begin{aligned}\text{Required ratio} &= \frac{210}{120} \\ &= 7 : 4\end{aligned}$$

S3. Ans(d)

Sol.

Total number of boys like M.S. Dhoni & Virat Kohli = $390 + 180 = 570$

Total number of girls like M.S. Dhoni & Virat Kohli = $210 + 120 = 330$

$$\begin{aligned}\text{Required percentage} &= \frac{570-330}{330} \times 100 \\ &= \frac{240}{330} \times 100 \\ &= 72 \frac{8}{11} \%\end{aligned}$$

S4. Ans(d)

Sol.

Total number of boys like M.S. Dhoni & Virat Kohli together in school 'Y'

$$\begin{aligned}&= 210 \times \frac{7}{3} + 120 \times \frac{275}{100} \\ &= 490 + 330 \\ &= 820\end{aligned}$$

$$\begin{aligned}\text{Required difference} &= 820 - (390 + 180) \\ &= 250\end{aligned}$$

S5. Ans(a)

Sol.

$$\begin{aligned}\text{Required average} &= \frac{390+210}{2} \\ &= 300\end{aligned}$$

S6. Ans.(e)

Sol. The pattern of the number series is $+7^2, +6^2, +5^2, +4^2, +3^2$

$$? = 138$$

S7. Ans.(c)

Sol. The pattern of the number series is $\times 1 + 1, \times 2 + 2, \times 3 + 3, \times 4 + 4, \times 5 + 5$

$$? = 27$$

S8. Ans.(a)

Sol. The pattern of the number series is $\times 0.5 + 1, \times 1.5 + 2, \times 2.5 + 3, \times 3.5 + 4, \times 4.5 + 5$

$$? = 84.5$$

S9. Ans.(d)

Sol. The number series is $2^3, 4^3, 6^3, 8^3, 10^3, 12^3$

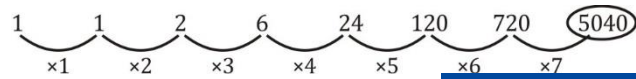
$$? = 1000$$

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S10. Ans.(c)

Sol.

**S (11-15):**

In 2014:

Let units sold of product - A & D be '2x' & 'x' units respectively,

So, units sold of product - C = $x \times \frac{144}{100} = 1.44x$

ATQ,

$$\frac{x + 1.44x + 2x}{3} = 370$$

$$\Rightarrow 4.44x = 1110$$

$$\Rightarrow x = 250$$

So, units sold of product - A = $2x = 500$ unitsUnits sold of product - C = $1.44x = 360$ unitsUnits sold of product - D = $x = 250$ unitsUnits sold of product - B = $1340 - (500 + 360 + 250) = 230$ units

In 2015:

Units sold of product - B = $230 \times \frac{140}{100} = 322$ units

Let units sold of product - D be 'x units'.

So,

$$\frac{322 + x}{2} = 411$$

$$x = 500 \text{ units}$$

Let units sold of product - C be 'y units'.

$$\text{So, } \frac{500 + y}{2} = 475$$

$$y = 450 \text{ units}$$

and units sold of product - A = $500 - 75 = 425$ units.

Products	2014	2015
A	500	425
B	230	322
C	360	450

D	250	500
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S11. Ans.(b)

$$\text{Sol. Required \%} = \frac{500 - 425}{500} \times 100 = 15\% \text{ decrease}$$

S12. Ans.(a)

$$\begin{aligned} \text{Sol. Required ratio} &= \frac{500 + 250}{450 + 500} \\ &= \frac{750}{950} \\ &= 15 : 19 \end{aligned}$$

S13. Ans.(e)

$$\begin{aligned} \text{Sol. Required difference} &= \left(\frac{425 + 322 + 450 + 500}{4} \right) - \left(\frac{500 + 230 + 360 + 250}{4} \right) = 424.25 - 335 \\ &= 89.25 \end{aligned}$$

S14. Ans.(d)

Sol. Total revenue generated from product - B in 2014 = $230 \times 15 = \text{Rs.}3450$

Total revenue generated from product - D in 2014 = $250 \times 12 = 3000 \text{ Rs.}$

$$\text{Required \%} = \frac{3450}{3000} \times 100 = 115\%$$

S15. Ans.(d)

Sol. Units sold of product - B and C together in 2014 = $230 + 360 = 590 \text{ units}$

$$\begin{aligned} \text{So, required \%} &= \frac{590 - 500}{500} \times 100 \\ &= \frac{90}{5}\% \\ &= 18\% \end{aligned}$$

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