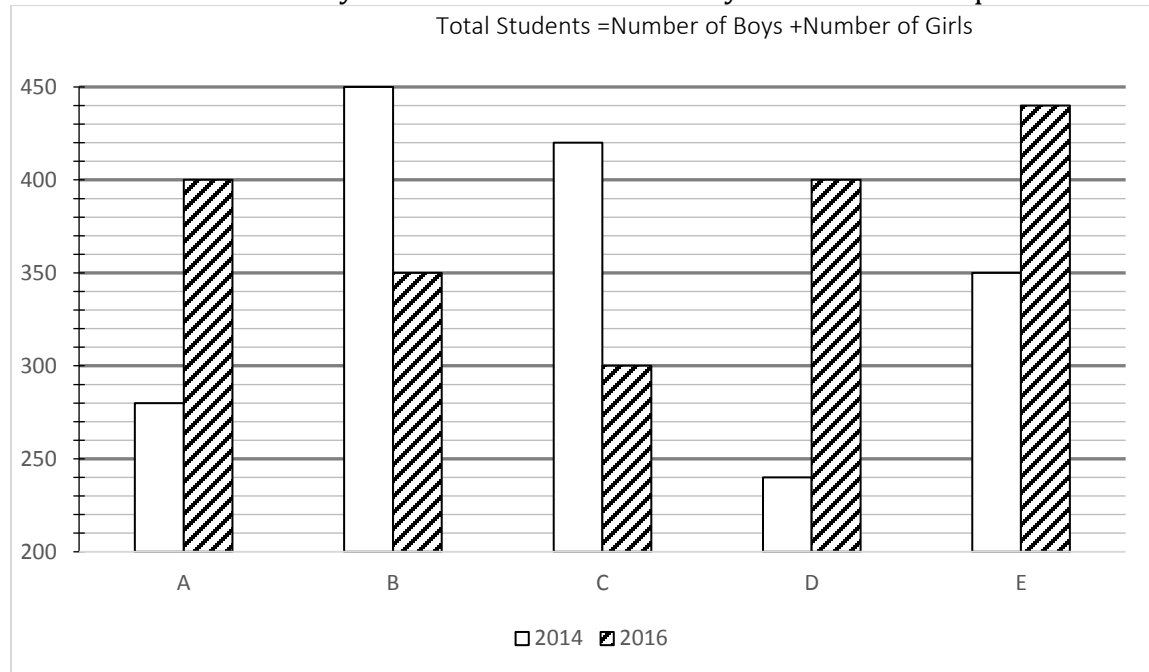


Quiz Date: 14th September 2020

Directions (1-5): The given bar graph shows the total number of students in five different schools in two different years. Read the data carefully and answer the questions.



Q1. Total number of students in school A and C together in year 2014 is what percent more/less than the total number of student in school A and E together in year 2016.

- (a) 25%
- (b) 20%
- (c) $13\frac{1}{3}\%$
- (d) $16\frac{2}{3}\%$
- (e) 15%

Q2. What is the ratio of average number of student in school A and B in year 2014 to average number of student in same school in year 2016.

- (a) 73 : 75
- (b) 71 : 75
- (c) 71 : 73
- (d) 69 : 73
- (e) 75 : 73

Q3. Find the difference between the average of the number of students in school A, B and C in year 2016 and the average of the number of students in school B, C and D in year 2014.

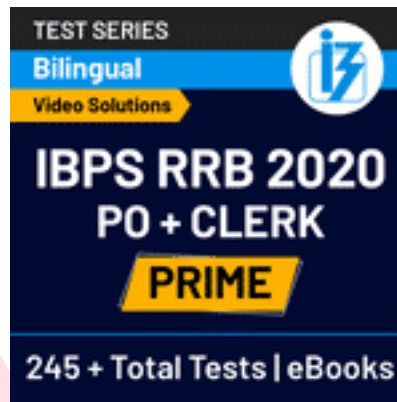
- (a) 20
- (b) 30
- (c) 25
- (d) 15
- (e) 10

Q4. In school F the total number of students in year 2014 and 2016 together is 20% more than that in school E in both the year. Find the difference between the total number of students in school F and school B (both the years are taken together).

- (a) 150
- (b) 158
- (c) 162
- (d) 144
- (e) 148

Q5. Find the average of the number of students in both the years in school B, C and D.

- (a) 680
- (b) 720
- (c) 750
- (d) 700
- (e) 650



Q6. There are 4 consecutive even numbers. If sum of first three numbers is 108, then calculate the product of smallest and largest no.

- (a) 1260
- (b) 1292
- (c) 1280
- (d) 1360
- (e) 1428

Q7. If marked price of an article is marked 60% above cost price and get profit equal to half of discount given. Find selling price of article, if marked price is Rs. 560?

- (a) Rs 360
- (b) Rs 330
- (c) Rs 420
- (d) Rs 450
- (e) Rs 480

Directions (8-10): What approximate value should come in place of question mark (?) in the following questions?

Q8. $\sqrt{12.24} \times 14.9 - (?)^2 \div 10 = -10.1$

- (a) 15
- (b) 25
- (c) 5
- (d) 11
- (e) 23

Q9. $123.001 + 132.001 \div 11.999 = ?^2 - 9.909$

- (a) 10
- (b) 16
- (c) 13
- (d) 12
- (e) 15

Q10. $223.989 \div 16.0123 + 3.9887 \times 16.001 - 2.998 = ? \% \text{ of } 100$

- (a) 75
- (b) 69
- (c) 73
- (d) 71
- (e) 79

Directions (11-13): What will come in the place of question (?) mark in the following number series?

Q11. 10, 12, 18, 30, 50, 80, ?

- (a) 123
- (b) 129
- (c) 122
- (d) 189
- (e) 111

Q12. 4, 48, 180, 448, 900, 1528, ?

- (a) 2548
- (b) 1987
- (c) 2143
- (d) 2876
- (e) 2651

Q13. 128, 64, 96, 240, 840, 3780, ?

- (a) 24350
- (b) 20790
- (c) 31980
- (d) 17260
- (e) 21800

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Directions (14- 15): In the following questions, two equations numbered I and II are given. You have to solve both equations and give answer among the following options.

- (a) if $x > y$
 (b) if $x \geq y$
 (c) if $x < y$
 (d) if $x \leq y$
 (e) if $x = y$ or the relationship cannot be established.

Q14. I. $x^2 + 3x + 2 = 0$
 II. $y + \frac{6}{y} = 4\sqrt{2}$

Q15. I. $x^2 - 4 = 0$
 II. $y^2 + 4y + 4 = 0$

Solutions

S1. Ans. (d)

Sol. Required percentage = $\frac{(440+400)-(280+420)}{(440+400)} \times 100$
 $= 16\frac{2}{3}\%$

S2. Ans. (a)

Sol. Required ratio = $\frac{\frac{1}{2}(280+450)}{\frac{1}{2}(400+350)} = 73 : 75$

S3. Ans. (a)

Sol. Required difference = $\left[\frac{1}{3}(450 + 420 + 240) - \frac{1}{3}(400 + 350 + 300) \right]$
 $= 370 - 350 = 20$



S4. Ans. (e)

Sol. Total number of student in school F in both the year
 $= \frac{120}{100} \times (350 + 440) = 948$
 Required difference = $948 - (450 + 350)$
 $= 148$

S5. Ans. (b)

$$\text{Sol. Required avg.} = \frac{(450+350)+(420+300)+(240+400)}{3}$$

$$= 720$$

S6. Ans (d)

Sol. Let 4 consecutive even no. are $a, a+2, a+4$ and $a+6$ respectively.

ATQ

$$a + a + 2 + a + 4 = 108$$

$$a = 34$$

$$\therefore \text{required no.} = a \times (a + 6) = 34 \times 40$$

$$= 1360$$

S7. Ans (c)

$$\text{Sol. Cost price of article} = 560 \times \frac{100}{160} = \text{Rs } 350$$

Let selling price of article be Rs y .

ATQ

$$y - 350 = \frac{1}{2} \times (560 - y)$$

$$y = 420$$

So, selling price of article = Rs 420

S8. Ans.(b)

$$\text{Sol. } \sqrt{12.25} \times 15 + 10 \approx \frac{(?)^2}{10}$$

$$3.5 \times 15 + 10 \approx \frac{(?)^2}{10}$$

$$\sqrt{62.5 \times 10} \approx ?$$

$$? \approx 25$$

S9. Ans. (d)

Sol.

$$123+132 \div 12 = ?^2 - 10$$

$$?^2 = 144$$

$$? = 12$$

S10. Ans.(a)

Sol.

$$224 \div 16 + 4 \times 16 - 3 = ? \% \text{ of } 100$$

$$14+64-3 = ?$$

$$\text{So, } ? = 75$$

S11. Ans(c)

Sol. The pattern of the series is -

$$10+1 \times 2 = 12$$

$$12+2 \times 3 = 18$$

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$$18+3 \times 4=30$$

$$30+4 \times 5=50$$

$$50+5 \times 6=80$$

$$80+6 \times 7=122$$

S12. Ans(a)

Sol. The pattern of the series is -

$$2^3 - 2^2 = 4$$

$$4^3 - 4^2 = 48$$

$$6^3 - 6^2 = 180$$

$$8^3 - 8^2 = 448$$

$$10^3 - 10^2 = 900$$

$$12^3 - 12^2 = 1584$$

$$14^3 - 14^2 = 2548$$

S13. Ans (b)

Sol. The pattern of the series is -

$$128 \times \frac{1}{2} = 64$$

$$64 \times \frac{3}{2} = 96$$

$$96 \times \frac{5}{2} = 240$$

$$240 \times \frac{7}{2} = 840$$

$$840 \times \frac{9}{2} = 3780$$

$$3780 \times \frac{11}{2} = 20790$$

So, ? = 20790

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S14. Ans (c)

Sol.

$$I. x^2 + 3x + 2 = 0$$

$$x^2 + 2x + x + 2 = 0$$

$$(x + 1)(x + 2) = 0$$

$$x = -1, -2$$

$$II. y + \frac{6}{y} = 4\sqrt{2}$$

$$y^2 - 4\sqrt{2}y + 6 = 0$$

$$y^2 - 3\sqrt{2}y - \sqrt{2}y + 6 = 0$$

$$(y - \sqrt{2})(y - 3\sqrt{2}) = 0$$

$$y = \sqrt{2}, 3\sqrt{2}$$

So, $x < y$

S15. Ans (b)

Sol.

$$\text{I. } x^2 - 4 = 0$$

$$x^2 = 4$$

$$x = \pm 2$$

$$\text{II. } y^2 + 4y + 4 = 0$$

$$(y + 2)^2 = 0$$

$$y = -2$$

$$\text{So, } x \geq y$$

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