

Quiz Date: 20th June 2020

Directions (1 - 5): What will come in place of question mark (?) in the following number series?

Q1. 1, 2, 6, 33, 49, 174, ?

- (a) 255
- (b) 284
- (c) 210
- (d) 251
- (e) 198

Q2. 1728, 1740, 1764, 1800, 1848, 1908, ?

- (a) 1980
- (b) 1988
- (c) 2008
- (d) 1976
- (e) 1955

Q3. 4, 4, 9, 29, 119, 599, ?

- (a) 1242
- (b) 1642
- (c) 1824
- (d) 3599
- (e) 4023

Q4. 49, 47, 53, 41, 61, 31, ?

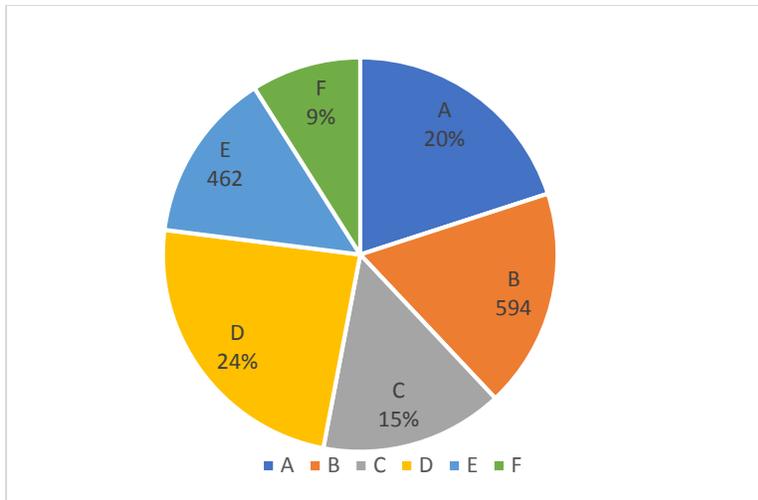
- (a) 75
- (b) 73
- (c) 71
- (d) 79
- (e) 81

Q5. 80, 122, 168, 226, 288, 362, ?

- (a) 420
- (b) 440
- (c) 480
- (d) 460
- (e) 520

Directions (6-10): Data given below shows number of girls in six different schools. Some data is given in absolute value while some in percentage. Study the data carefully and answer the following questions





Q6. Find the central angle of girls in school B?

- (a) 57.6°
- (b) 64.8°
- (c) 72°
- (d) 79.2°
- (e) 86.4°

Q7. Total number of girls in school 'D' is how much more than total number of girls in school 'E'?

- (a) 264
- (b) 297
- (c) 330
- (d) 363
- (e) 396



Q8. Find the total number of girls in school 'A' and 'D' together?

- (a) 1364
- (b) 1386
- (c) 1408
- (d) 1430
- (e) 1452

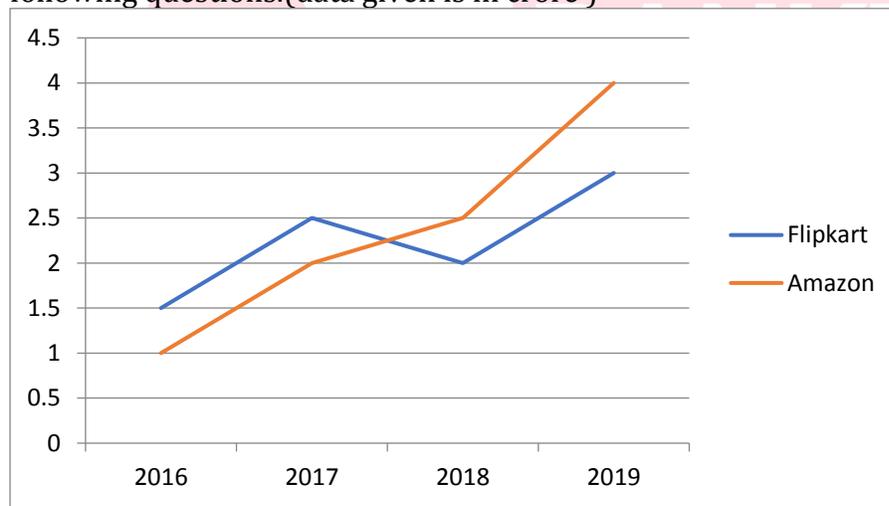
Q9. If ratio between number of girls and number of boys in school 'F' is 9 : 8, then find total number of students in school 'F'.

- (a) 561
- (b) 550
- (c) 528
- (d) 539
- (e) 572

Q10. Total number of girls in school 'C' is what percent less than total number of girls in school 'A'?

- (a) $33\frac{1}{3}\%$
- (b) 25%
- (c) $66\frac{2}{3}\%$
- (d) 75%
- (e) 50%

Directions (11-15): Line graph show the different number of ordered received by two different e-commerce website in 4 different years. Study the data carefully and answer the following questions.(data given is in crore)



Q11. What is average ordered received in 2019 by both the e-commerce websites?

- (a) 3 crore
- (b) 4 crore
- (c) 3.5 crore
- (d) 4.5 crore
- (e) 2 crore

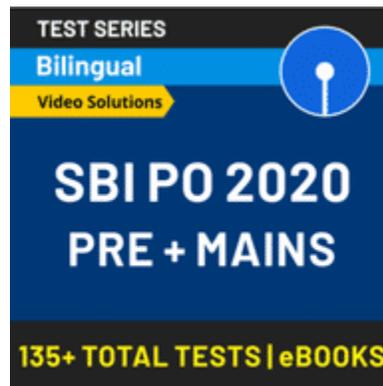
Q12. By how much percent the total order received by amazon in all the years is more than the total order received by flipkart in all the years?

- (a) 5%
- (b) $5\frac{5}{9}\%$

- (c) 6%
- (d) 7%
- (e) $6\frac{3}{5}\%$

Q13. What is ratio of order received by flipkart in 2016 and 2017 together to the order received by amazon in 2018 and 2019 together?

- (a) 8:13
- (b) 13:8
- (c) 13:15
- (d) 15:13
- (e) None of these



Q14. What is difference between the average order received by flipkart in 2017, 2018 and 2019 together and the average ordered received by amazon in 2016, 2017 and 2018 together?(approx.)

- (a) 76 lakhs
- (b) 60 lakhs
- (c) 67 lakhs
- (d) 50 lakhs
- (e) 80 lakhs

Q15. If in 2015 the order received by amazon is 75% more than the order received by Amazon in 2016. So, by how much it (order received by amazon in 2015) is more or less than the order received by Flipkart in 2017?

- (a) 50 lakhs
- (b) 70 lakhs
- (c) 1 crore
- (d) 75 lakhs
- (e) 1.5 crore

Solutions

S1. Ans. (c)

Sol.

$$1+1^3 = 2$$

$$2+2^2 = 6$$

$$6+3^3 = 33$$

$$33+4^2 = 49$$

$$49+5^3 = 174$$

$$\text{So, } 174+6^2 = 210$$

S2. Ans. (a)

Sol.

$$1728+12=1740$$

$$1740+24=1764$$

$$1764+36=1800$$

$$1800+48=1848$$

$$1848+60=1908$$

$$\text{So, } 1908+72=1980$$

S3. Ans. (d)

Sol.

$$4 \times 1 + 0 = 4$$

$$4 \times 2 + 1 = 9$$

$$9 \times 3 + 2 = 29$$

$$29 \times 4 + 3 = 119$$

$$119 \times 5 + 4 = 599$$

$$599 \times 6 + 5 = 3599$$

S4. Ans. (b)

Sol.

$$49-(1 \times 2)=47$$

$$47+(2 \times 3)=53$$

$$53-(3 \times 4)=41$$

$$41+(4 \times 5)=61$$

$$61-(5 \times 6)=31$$

$$\text{So, } 31+(6 \times 7)=73$$

S5. Ans. (b)

Sol.

$$9^2 - 1 = 80$$

$$11^2 + 1 = 121$$

$$13^2 - 1 = 168$$

$$15^2 + 1 = 226$$

$$17^2 - 1 = 288$$

$$19^2 + 1 = 362$$

$$\text{So, } 21^2 - 1 = 440$$

Sol (6-10):

Total number of girls in school B and E together $\rightarrow [100-20-15-24-9] \% = 462 + 594$
 $\Rightarrow 32\% = 1056$



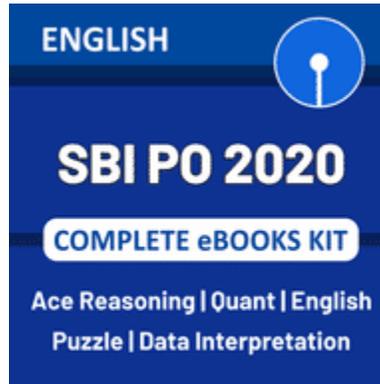

$$\Rightarrow 100\% = 3300$$

Total number of girls in Six school together = 3300

S6. Ans.(b)

Sol.

$$\text{Required central angle} = \frac{594}{3300} \times 360 = 64.8^\circ$$



S7. Ans.(c)

Sol.

$$\text{Total number of girls in school D} = \frac{24}{100} \times 3300 = 792$$

$$\text{Required difference} = 792 - 462 = 330$$

S8. Ans.(e)

Sol.

$$\begin{aligned} \text{Total number of girls in school A \& D together} &= \frac{(20+24)}{100} \times 3300 \\ &= 44 \times 33 = 1452 \end{aligned}$$

S9. Ans.(a)

Sol.

Total number of students in school F

$$\begin{aligned} &= \frac{9}{9} \times \frac{17}{100} \times 3300 \\ &= 561 \end{aligned}$$

S10. Ans.(b)

Sol.

$$\begin{aligned} \text{Required \%} &= \frac{20-15}{20} \times 100 \\ &= \frac{5}{20} \times 100 = 25\% \end{aligned}$$

S11. Ans(c)

Sol. Total order received in 2019 = 3+4 = 7 crore

$$\text{Required average} = \frac{7}{2} = 3.5 \text{ crore}$$

S12. Ans(b)

Sol. Total order received by amazon in all the year together = $1+2+2.5+4 = 9.5$ crore

Total order received by flipkart in all the year together = $1.5+2.5+2+3 = 9$ crore

Required percentage = $\frac{(9.5-9)}{9} \times 100 = 5\frac{5}{9}\%$

S13. Ans(a)

Sol. order received by flipkart in 2016 and 2017 together = 4 crore

order received by amazon in 2018 and 2019 together = 6.5 crore

\therefore required ratio = 8:13

S14. Ans(c)

Sol. required difference = $\frac{2.5+2+3}{3} - \frac{1+2+2.5}{3} = 66.66$ lakhs ~ 67 lakhs

S15. Ans(d)

Sol. order received in 2015 by amazon = 1.75 crore

Required difference = $2.5 - 1.75 = .75 = 75$ lakhs

