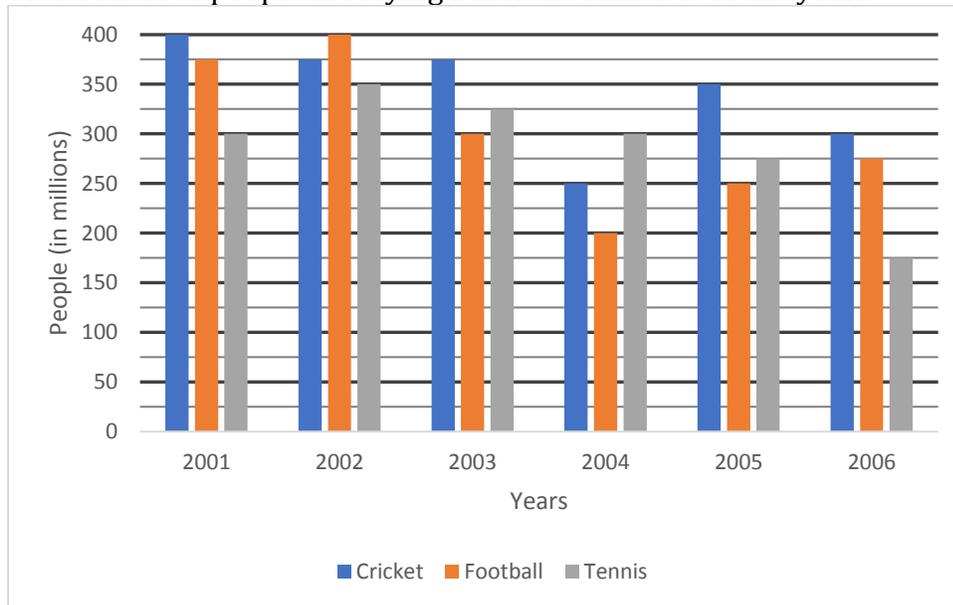


Quiz Date: 3<sup>rd</sup> July 2020

**Directions (1 - 5) :** Study the following graph carefully and answer the questions given below.

Preferences of people in Playing Different Games over the years



Q1. In the year 2006, the people preferring to play Tennis is what per cent of the people preferring to play Cricket, Football and Tennis together in that year?

- (a)  $25\frac{1}{2}$
- (b)  $24\frac{3}{4}$
- (c)  $21\frac{1}{3}$
- (d)  $22\frac{2}{5}$
- (e)  $23\frac{1}{3}$

Q2. From 2001 to 2006, the total number of people who preferred to play Football was how much (in millions)?

- (a) 1500
- (b) 1600
- (c) 1700
- (d) 1800
- (e) 1900

Q3. The number of people preferring to play Tennis in 2006 is how many millions fewer than the number of people preferring to play Tennis in 2005?

- (a) 110
- (b) 105
- (c) 100
- (d) 95

(e) 90

Q4. What is the respective ratio of the number of people preferring to play cricket to the number of people preferring to play Tennis in the year 2003?

- (a) 14 : 17
- (b) 15 : 13
- (c) 15 : 11
- (d) 13 : 15
- (e) 17 : 14

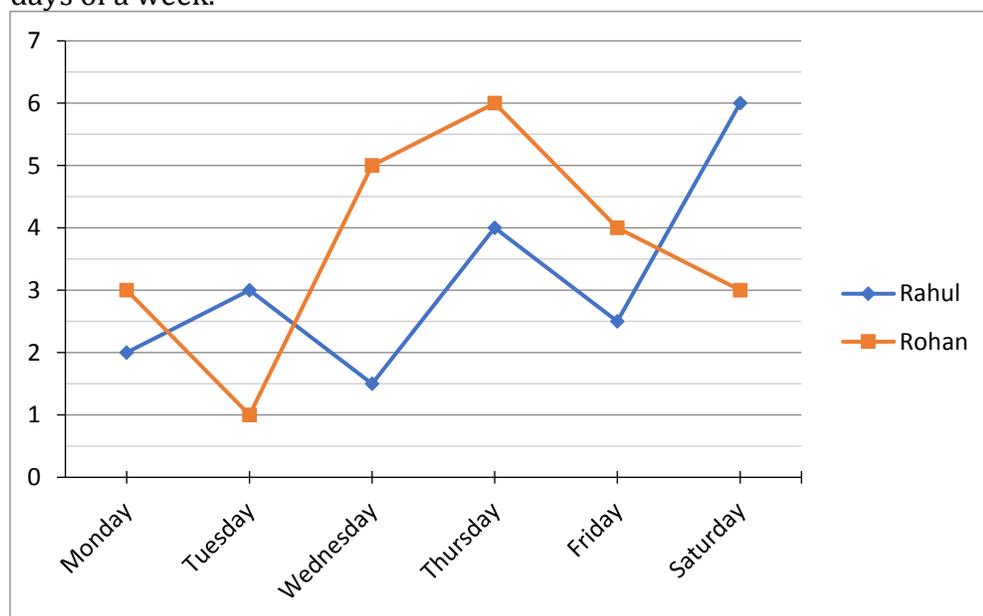
Q5. How many people (in millions) have preferred to play cricket in all the years together?

- (a) 2050
- (b) 2000
- (c) 1850
- (d) 1750
- (e) 1600



**Directions (6-10):** Study the line-graph carefully and answer the questions.

Line graph given below shows the time taken in hours by Rahul and Rohan on six different days of a week.



Q6. If distance covered by both Rahul and Rohan on Tuesday is same then find the ratio of speed of Rohan to speed of Rahul on Tuesday ?

- (a) None of these
- (b) 1 : 3
- (c) 3 : 1
- (d) 3 : 2
- (e) 4 : 3

Q7. Total distance covered by Rohan on Tuesday, Wednesday and Thursday together is 96 km and respective ratio of speed on these days is 5 : 3 : 2. Then find average of speed of Rohan on Tuesday and Thursday ?

- (a) 10.5 km/hr
- (b) 13 km/hr
- (c) 21 km/hr
- (d) None of these
- (e) 8.5 km/hr

Q8. If distance travelled on Saturday by each is 180 km. And speed of Rohan & Rahul on Sunday is 20% & 40% more than Saturday. Then speed of Rohan on Sunday is what percent more or less than speed of Rahul on same day?

- (a)  $71\frac{3}{7}\%$
- (b)  $78\frac{2}{7}\%$
- (c)  $61\frac{3}{5}\%$
- (d)  $67\frac{2}{3}\%$
- (e) None of these

Q9. If speed of Veer on Monday is 5 m/s which is 30% and 45% of the speed of Rahul and Rohan respectively. Then find the total distance travelled by Rohan and Rahul together on same day ?

- (a) 360 km
- (b) None of these
- (c) 320 km
- (d) 210 km
- (e) 240 km

Q10. If distance covered by Ayush, Rahul and Rohan on Friday is in ratio of 1 : 3 : 4 and speed of Amit is  $63\frac{7}{11}\%$  of speed of Rohan and Rahul together. Then find the speed of Amit given that speed of Ayush is 15 km/hr and time taken by him on Friday is same as time taken by Rahul on Monday?

- (a) 56 km/hr
- (b) 42 km/hr
- (c) 49 km/hr
- (d) 70 km/hr

(e) 35 km/hr

**Directions (11 – 15):** What should come in place of question mark (?) in the following questions?

Q11.  $\left(\frac{3}{2} \times \frac{16}{4} \times \frac{3}{8}\right) + \left(\frac{3}{8} \times \frac{12}{4} \times \frac{18}{2}\right) = ?$

(a)  $12\frac{1}{8}$

(b)  $12\frac{1}{4}$

(c)  $12\frac{3}{8}$

(d)  $12\frac{5}{8}$

(e)  $12\frac{7}{8}$



Q12.  $(3080 + 6160) \div ? = 330$

(a) 26

(b) 22

(c) 28

(d) 29

(e) 18

Q13.  $? \times (523.5 + 687.5) = 24220$

(a) 32

(b) 22

(c) 28

(d) 20

(e) 30

Q14.  $\left(\frac{5 \times 5 \times 5 \times 5}{2+2+2+2}\right) = ?$

(a) 78.125

(b) 76.125

(c) 68.125

(d) 72.125

(e) 74

Q15.  $\frac{3}{4} + \frac{5}{8} + \frac{13}{16} + \frac{3}{8} = ?$

(a)  $2\frac{9}{16}$

(b)  $2\frac{1}{16}$

(c)  $2\frac{3}{16}$

(d)  $2\frac{7}{16}$

(e)  $2\frac{13}{16}$

### Solutions

S1. Ans. (e)

Sol. Required percentage

$$= \frac{175}{300 + 275 + 175} \times 100$$

$$= \frac{1750}{750} = 23\frac{1}{3}\%$$

S2. Ans. (d)

Sol. Total no. of people who preferred to play football from 2001 to 2006

$$= 375 + 400 + 300 + 200 + 250 + 275$$

$$= 1800 \text{ millions}$$

S3. Ans. (c)

Sol. Required difference =  $275 - 175$

$$= 100 \text{ millions}$$

S4. Ans. (b)

Sol. Required Ratio =  $375 : 325$

$$= 15 : 13$$

S5. Ans. (a)

Sol. Total no. of people who preferred to play cricket in all the years together

$$= (400 + 375 + 375 + 250 + 350 + 300)$$

$$= 2050 \text{ millions}$$

S6. Ans.(c)

Sol.

Let distance covered by earn Rahul and Rohan On Tuesday be x km.

$$\text{Required ratio} = \frac{x}{\frac{x}{3}}$$

$$= 3 : 1$$

S7. Ans.(a)

Sol.

Let speed of Rohan on Tuesday, Wednesday & Thursday be  $5x$  kmph,  $3x$  kmph and  $2x$  kmph respectively

ATQ,

$$5x \times 1 + 3x \times 5 + 2x \times 6 = 96$$

$$32x = 96$$

$$x = 3 \text{ km/hr}$$

$$\text{Required avg.} = \frac{3 \times 5 + 3 \times 2}{2} = 10.5 \text{ km/hr}$$



S8. Ans.(a)

Sol.

$$\text{Speed of Rohan on Saturday} = \frac{180}{3} = 60 \text{ km/hr}$$

$$\text{Speed of Rahul on Saturday} = \frac{180}{6} = 30 \text{ km/hr}$$

$$\text{Speed of Rohan on Sunday} = 60 \times 1.2 = 72 \text{ km/hr}$$

$$\text{Speed of Rahul on Sunday} = 30 \times 1.4 = 42 \text{ km/hr}$$

$$\text{Required \%} = \frac{72-42}{42} \times 100 = 71\frac{3}{7}\%$$

S9. Ans.(e)

Sol.

$$\text{Speed of Veer on Monday} = 5 \times \frac{18}{5} = 18 \text{ km/hr}$$

$$\text{Speed of Rahul on Monday} = \frac{18}{30} \times 100 = 60 \text{ km/hr}$$

$$\text{Speed of Rohan on Monday} = \frac{18}{45} \times 100 = 40 \text{ km/hr}$$

$$\text{Required distance} = 60 \times 2 + 40 \times 3 = 240 \text{ km}$$

S10. Ans.(b)

Sol.

Let distance covered by Ayush, Rahul & Rohan be  $x$  km,  $3x$  km and  $4x$  km respectively

$$x = 15 \times 2$$

$$x = 30 \text{ km}$$

$$\text{Speed of Rahul on Friday} = \frac{3 \times 300}{2.5} = 36 \text{ km/hr}$$

$$\text{Speed of Rohan on Friday} = \frac{4 \times 30}{4} = 30 \text{ km/hr}$$

$$\text{Speed of Amit} = \frac{7}{11} \times (36 + 30) = 42 \text{ km/hr}$$

S11. Ans. (c)

$$\text{Sol. } \frac{144+648}{64} = \frac{792}{64}$$
$$= 12\frac{3}{8}$$

S12. Ans. (c)

$$\text{Sol. } \frac{9240}{330} = ?$$
$$? = 28$$

S13. Ans. (d)

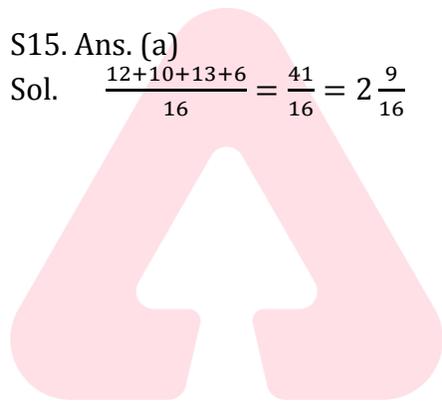
$$\text{Sol. } ? = \frac{24220}{1211}$$
$$= 20$$

S14. Ans. (a)

$$\text{Sol. } \frac{625}{8} = 78.125$$

S15. Ans. (a)

$$\text{Sol. } \frac{12+10+13+6}{16} = \frac{41}{16} = 2\frac{9}{16}$$



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