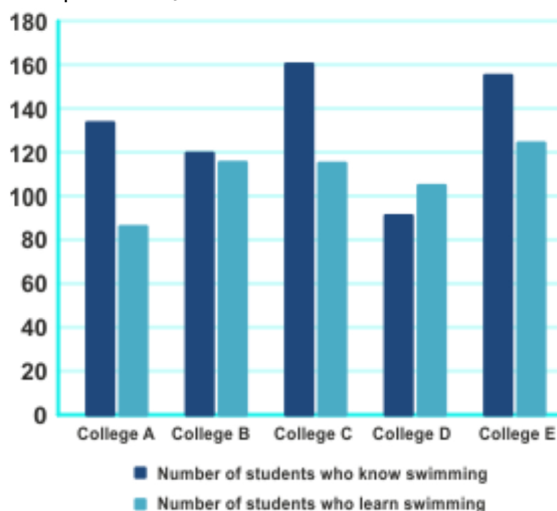


Direction 1 - 5 : The bar graph below shows the number of students in 5 colleges who know swimming and those who learn swimming. Study the graph carefully and answer the questions that follow. (All the numbers mentioned are in the multiples of 5)



Q:1 There is a total of 450 students in College A. Next month, some students who are learning swimming moved to the group of students who know swimming. If the percentage of students who know swimming in college A becomes 40%, then find the number of students left in college A who will learn swimming next month.

1. 30
2. 40
3. 50
4. 35
5. 45

Q:2 In college E, 25 more students started learning swimming and so the percentage of total students who learned swimming in college E becomes 37.5%. Find the total number of students in college E.

1. 300
2. 350
3. 500
4. 400
5. 450

Q:3 If the average number of students in colleges A, B, C, D, E, and F who learn swimming is 110 then, find the number of students in college F who learn

swimming.

1. 115
2. 125
3. 120
4. 130
5. 145

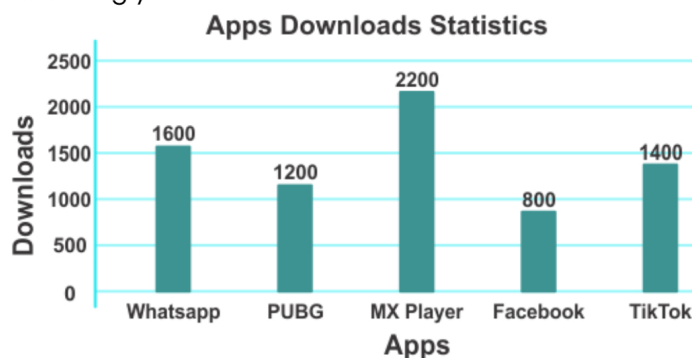
Q:4 The total number of students who know swimming in colleges A and E together is what percent of the total number of students who learn swimming in colleges C and D together? (Approx.)

1. 132%
2. 155%
3. 150%
4. 130%
5. None of these

Q:5 The total number of students in College B is 424. How many students neither know swimming nor learn swimming in college B?

1. 192
2. 198
3. 189
4. 184
5. 181

Direction 6 - 10 : The following bar graph tells about the number of different apps downloaded last month. Read the graph and answer accordingly.



Q:6 The average user rating of Facebook by all people who downloaded it last month was 4.1 stars and same for TikTok was 2.3 stars. What was the average rating given to the other 3 apps by the users if the combined average rating of all 5 apps was 3.8 stars?

1. 3.96 stars



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2. 4.08 stars
3. 4.04 stars
4. 4.17 stars
5. 4.26 stars

Q:7 If Whatsapp and Facebook are categorised as Social Apps, PUBG and TikTok as Entertainment Apps and rest as Video Streaming apps, the number of downloads of Entertainment Apps is what per cent of number of Social and Video Streaming apps downloads combined?

1. 53.24%
2. 47.64%
3. 42.35%
4. 56.52%
5. 51.62%

Q:8 This Month, 40% of users of PUBG app uninstalled it and were replaced with Whatsapp and Facebook users in the ratio 7 : 5. What would be the ratio of MX Player downloads last month to increased Facebook users this month?

1. 9 : 5
2. 10 : 7
3. 11 : 5
4. 9 : 4
5. 13 : 7

Q:9 If TikTok and PUBG are considered as Chinese apps, 20% of the users who downloaded Chinese apps last month, uninstalled them. What is the ratio of the number of current Chinese app users to the total downloads of other apps in the last month?

1. 52 : 115
2. 47 : 107
3. 59 : 113
4. 49 : 103
5. None of these

Q:10 The average number of downloads of all the apps is how much per cent more than the number of Facebook App downloads?

1. 75%
2. 80%
3. 65%
4. 70%
5. None of these

Answer Key

1. (2)	2. (4)	3. (1)	4. (1)	5. (3)
6. (4)	7. (4)	8. (3)	9. (1)	10. (2)

Answers and Solutions

Q:1 The correct answer is **Option 2** i.e. **40**.

There is a total of 450 students in College A

Next month:

Number of students who know swimming in college A = $450 \times 0.4 = 180$

Hence, the number of students who are moved to the group of students who know swimming

$$\Rightarrow 180 - 135 = 45$$

Hence, the remaining number of students in college A who will learn to swim next month = $85 - 45 = 40$

Q:2 The correct answer is **Option 4** i.e. **400**.

From the bar graph:

Number of students who learn swimming in college E after addition of 25 students = $125 + 25 = 150$

Hence,

$$\text{Total number of students in college E} = 150 / 0.375 = 400$$

Q:3 The correct answer is **option 1** i.e. **115**

From the bar graph:

Total number of students in colleges A, B, C, D, and E who learn swimming

$$\Rightarrow 85 + 115 + 115 + 105 + 125 = 545$$

Suppose the number of students in college F who learn swimming = X

So,

$$\Rightarrow (545 + X) / 6 = 110$$

$$\Rightarrow X = 660 - 545$$

$$\Rightarrow X = 115$$

Hence, the number of students in college F who learn swimming = 115

Q:4 The correct answer is **Option 1** i.e. **132%**.

From the bar graph:

Total number of students who know swimming in colleges A and E together

$$\Rightarrow 135 + 155 = 290$$

And, the Total number of students who learn swimming in colleges C and D together

$$\Rightarrow 115 + 105 = 220$$

$$\text{Hence, Required percentage} = [290/220] \times 100 = 131.8\% \text{ or } 132\%$$

Q:5 The correct answer is **Option 3** i.e. **189**.

From the bar graph:

Number of students who neither know swimming nor learn swimming in college B

$$\Rightarrow 424 - (120 + 115)$$

$$\Rightarrow 424 - 235 = 189$$

Q:6 The correct answer is **option 4** i.e. **4.17 stars**

Average rating of Facebook = 4.1 stars

Number of people who downloaded Facebook = 800

Average rating of TikTok = 2.3 stars

Number of people who downloaded TikTok = 1400

Now, the Combined Average rating of all Apps = 3.8 stars

$$\text{Number of total downloads of all apps} = 1600 + 1200 + 2200 + 800 + 1400 = 7200$$

let average rating of other 3 apps except Facebook and TikTok = y stars

Now,

$$(800 \times 4.1) + (1400 \times 2.3) + (5000 \times y) = 3.8 \times 7200$$

$$y = (27360 - 3280 - 3220) / 5000$$

$$y = 4.172 \text{ or } 4.17 \text{ stars}$$

Q:7 The correct answer is **option 4** i.e. **56.52%**.

Total Number of downloads of Entertainment Apps = $1200 + 1400 = 2600$

Total number of downloads of social apps = $1600 + 800 = 2400$

Total number of Video Streaming apps = 2200

Hence, relative percentage of Entertainment apps to Social and Video streaming apps combined:

$$\Rightarrow 2600 / (2400 + 2200) \times 100 = 56.52\%$$

Q:8 The correct answer is **option 3** i.e. **11 : 5**.

Total PUBG downloads = 1200

40% of them uninstalled i.e. $0.4 \times 1200 = 480$

This 480 was replaced with Whatsapp and Facebook in ratio 7 : 5

$$\text{So, increase in Whatsapp downloads} = 7 / (7 + 5) \times$$



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$$480 = 280$$

$$\text{Increase in Facebook Downloads} = 5 / (7 + 5) \times$$

$$480 = 200$$

$$\text{Total Facebook users this month} = 800 + 200 = 1000$$

$$\text{MX Player downloads last month} = 2200$$

$$\text{Ratio of MX Player downloads last month to increased Facebook users this month} = 2200 : 1000 = 11 : 5$$

Q:9 The correct answer is **option 1** i.e. **52 : 115**.

$$\text{Total Chinese app download} = 1200 + 1400 = 2600$$

$$20\% \text{ of them uninstalled i.e. } 0.2 \times 2600 = 520$$

$$\text{Hence, users left after uninstalling} = 2600 - 520 = 2080$$

$$\text{Number of downloads of other apps last month} = 1600 + 2200 + 800 = 4600$$

$$\text{Required Ratio} = 2080 : 4600 = 52 : 115$$

Q:10 The correct answer is **option 2** i.e. **80%**.

$$\text{Average number of downloads of all the apps} = (1600 + 1200 + 2200 + 800 + 1400) / 5 = 1440$$

$$\text{Now, number of Facebook app downloads} = 800$$

$$\text{Hence, average downloads was } 1440 / 800 \text{ i.e. } 1.8 \text{ times or } 80\% \text{ more than of Facebook downloads.}$$