



Mixed Graph

Solution

1. Answer: (B)

Successful surgeries done by A

$$= 9600 \times \frac{80}{100} = 7680$$

Successful surgeries done by B
=
$$7200 \times \frac{70}{100} = 5040$$

Successful surgeries done by D

$$= 8400 \times \frac{85}{100} = 7140$$

Successful surgeries done by E

$$=4000\times\frac{75}{100}=3000$$

Required average

$$=5715$$

2. Answer: (D)

Total failed surgeries done by D & E
$$= 8400 \times \frac{15}{100} + 4000 \times \frac{25}{100}$$

Total failed surgeries done by B

$$=7200 \times \frac{30}{100} = 2160$$

Required percentage = $\frac{2260-2160}{2160} \times 100$

$$=4\frac{17}{27}\%$$

3. Answer: (E)

Successful surgeries done by E

$$=4000 \times \frac{75}{100} = 3000$$

Total failed surgeries done by B & D
=
$$7200 \times \frac{30}{100} = 8400 \times \frac{15}{100}$$

$$= 1260 + 2160$$

$$= 3420$$

Required difference = 3420 - 3000

=420

Answer: (D) 4.

Total failed surgery done by A

$$=9600\times\frac{20}{100}=1920$$

Total failed surgery done by B

$$= 7200 \times \frac{30}{100} = 2160$$

Total failed surgery done by C

$$=4800 \times \frac{10}{100} = 480$$

Total failed surgery done by D

$$= 8400 \times \frac{15}{100} = 1260$$

Total failed surgery done by E

$$=4000\times\frac{25}{100}=1000$$

Required sum

$$= 1920 + 2160 + 480 + 1260 + 1000 = 6820$$

5. Answer: (A)

Total failed done by A & D

$$= 9600 \times \frac{20}{100} + 8400 \times \frac{15}{100}$$

$$= 1920 + 1260$$

$$= 3180$$

Total successful surgeries done by C

$$=4800 \times \frac{90}{100} = 4320$$

Required difference = 4320 - 3180 = 1140

Answer: (C)

No. of people who visited on

Wednesday =
$$1200 \times \frac{20}{100} = 240$$

Wednesday =
$$1200 \times \frac{20}{100} = 240$$

Required percentage = $\frac{240-96}{240} \times 100 =$

60%

7. Answer: (A)

No. of male visited on Monday

$$= 1200 \times \frac{30}{100} - 144 = 216$$

Required ratio =
$$126:128$$

$$= 27:16$$

8. Answer: (B)

Total no. of female who visited park

$$= 144 + 314 + 96 + 128 = 82$$

Total no. of males who visited park

$$= 1200 - 682 = 518$$

Required difference = 682 - 518 = 164

9. Answer: (D)

Total no. of male visited on Wednesday
=
$$1200 \times \frac{20}{100} - 96 = 144$$

Total no. of people who visited on Monday



ISO Certified

$$=1200\times\frac{30}{100}=360$$

Required percentage = $\frac{144}{360} \times 100 = 40\%$

10. Answer: (E)

No. of male who visited on Tuesday

$$= 1200 \times \frac{35}{100} - 314 = 106$$

No. of female who visited on Friday
$$= \frac{25}{100} \left[1200 \times \frac{30}{100} - 144 \right] = 54$$

= 53:27

11. Answer: (B)

Total sale of Jute in India = $\frac{3}{5} \times 312500$

= 187500 Rs.

Amount of Jute consumed in India

$$= \frac{1}{2} \times \frac{6.25}{100} \times 200000$$

=6250

Price per unite of Jute in India = $\frac{187500}{6250}$

= 30 Rs/tonnes

Price per tonne of Barey export

= 15rs/tonnes

Total barley exported = $\frac{4}{5} \times \frac{12.5}{100} \times 200000$ 14. Answer: (E) Quantity of b

Total sale barley in India

$$=500000-20000\times15$$

= 200000 Rs.

12. Answer: (B)

Rice exported

$$=\frac{25}{100}\times200000\times\frac{2}{5}$$

= 200000 tonne

Total sale of rice exported

$$=\frac{45}{100}\times600000$$

Selling price of one tonne of exported rice

- 20.000
- = 13.5 Rs/tonnes

Jute consumed in India

$$= \frac{1}{2} \times \frac{6.25}{100} \times 200000$$

=6250

Total sale of /jute in India = $\frac{60}{100} \times 312500$

= 187500

Keep in touch:



www.mockopedia.com

Per tonne price of Jute consumed in India

$$=\frac{187500}{6250}=30 \, Rs/tonne$$

Required\% =
$$\frac{30-13.5}{30} \times 100$$

= 55%

13. Answer: (C)

Let amount of maize consumed in India = x

$$x + \frac{25}{100}x = \frac{12.5}{100} \times 200000$$

$$\frac{125x}{100} = 25000$$

Total sale of maize in India = $\frac{65}{100} \times 400000$

= 260,000

Per tonne price of maize in consumed in

$$=\frac{\frac{2,60,000}{20,000}}{\frac{20,000}{20,000}}=13 \, Rs/tonne$$

Price per tonne of Jute consumed in India

= 30 Rs/tonne

Required percentage

$$= \frac{13}{30} \times 100$$
$$= 43\frac{1}{3}\%$$

Quantity of barley which is exported
$$= \frac{4}{5} \times \frac{12.5}{100} \times 200000$$

Quantity of sugar consumed in India

$$=30 \times 200 = 6000$$

Let total wheat produced

$$= \left(100\% - \frac{250}{3}\%\right) \text{ of } x$$

$$= \frac{50}{3}\% \text{ of } x$$

$$= \frac{x}{6}$$

$$200000 = x + \frac{x}{6} + \frac{56.25}{100} \times 200000$$

$$x + \frac{x}{6} = 87500$$

$$x = 75000$$

Total sugar produced = $\frac{75000}{4}$

= 12500

Total sugar exported

$$= 12500 - 6000 = 6500$$

15. Answer: (A)



ISO Certified

Let total sugar produced is x So total wheat produced will be 6x Percentage distribution of production of sugar and wheat = 100% - 56.25% = 43.75%

Percentage distribution of production of wheat = $\frac{43.75}{7} \times 6 = 37.5\%$

Amount of wheat exported

$$= \frac{7}{15} \times \frac{3}{8} \times 200000 = 35000$$

Amount of wheat consumed

$$= \frac{8}{15} \times \frac{3}{8} \times 200000 = 40000$$

Let, selling price of one tonne of wheat exported be Rs. 2x and that consumed be Rs. 3x

Then, $35000 \times 2x + 40000 \times 3x = 5719000$

Or, 190000x = 5719000

Or, x = 30.1

Selling price of one tonne of wheat Exported from India = Rs. 2x = Rs. $2 \times 30.1 = Rs$. 60.2

16. Answer: (A)

No. of students who paid fees through credit card in 2103 and 2014 together 20.

 $= 12,00,000 \times \left[\frac{16}{100} \times \frac{62.5}{100} + \frac{24}{100} \times \frac{75}{100} \right]$

 $= 120 \times [1000 + 1800]$

=3,36,000

No. of students who paid fees through debit card in 2015 and 2016 together.

Keep in touch:



www.mockopedia.com

 $=12,00,000\times\left[\frac{20}{100}\times\frac{62.5}{100}+\frac{15}{100}\times\frac{42.5}{100}\right]$

 $= 120 \times [1250 + 637.5]$

= 2,26,500

Required difference = 3,36,000 - 2,26,500

= 1.09,500

17. **Answer:** (C)

No. of student who paid through debit card in 2012

 $= \frac{1}{2} \times 12,00,000 \times \left[\frac{15}{100} \times \frac{42.5}{100} + \frac{25}{100} \times \frac{20}{100} \right]$

 $=60 \times [637.5 + 500]$

=68250

∴ Total number of student in 2012

 $= 68250 \times 3/2 = 1,02,375$

18. Answer: (D)

Required% =
$$\frac{12,00,000 \times \frac{25}{100} \times \frac{80}{100}}{12,00,00 \times \frac{25}{100} \times \frac{25}{100}} \times 100$$

= 160%

19. **Answer:** (B)

Required Avg. =
$$\frac{1}{3} \times 12,00,000 \left[\frac{16}{100} \times \frac{37.5}{100} + \frac{25}{100} + \frac{15}{100} \times \frac{42.5}{100} \right]$$

$$\frac{37.5}{100} + \frac{25}{100} + \frac{15}{100} \times \frac{42.5}{100} \right]$$

=73500

Answer: (E)

Required amount = $12,00,000 \times$

$$\left[\frac{20}{100} \times \frac{37.5}{100} + \frac{25}{100} \times \frac{80}{100}\right] \times 20$$

 $= 120 \times 2750 \times 20$

= Rs. 66, 00, 000