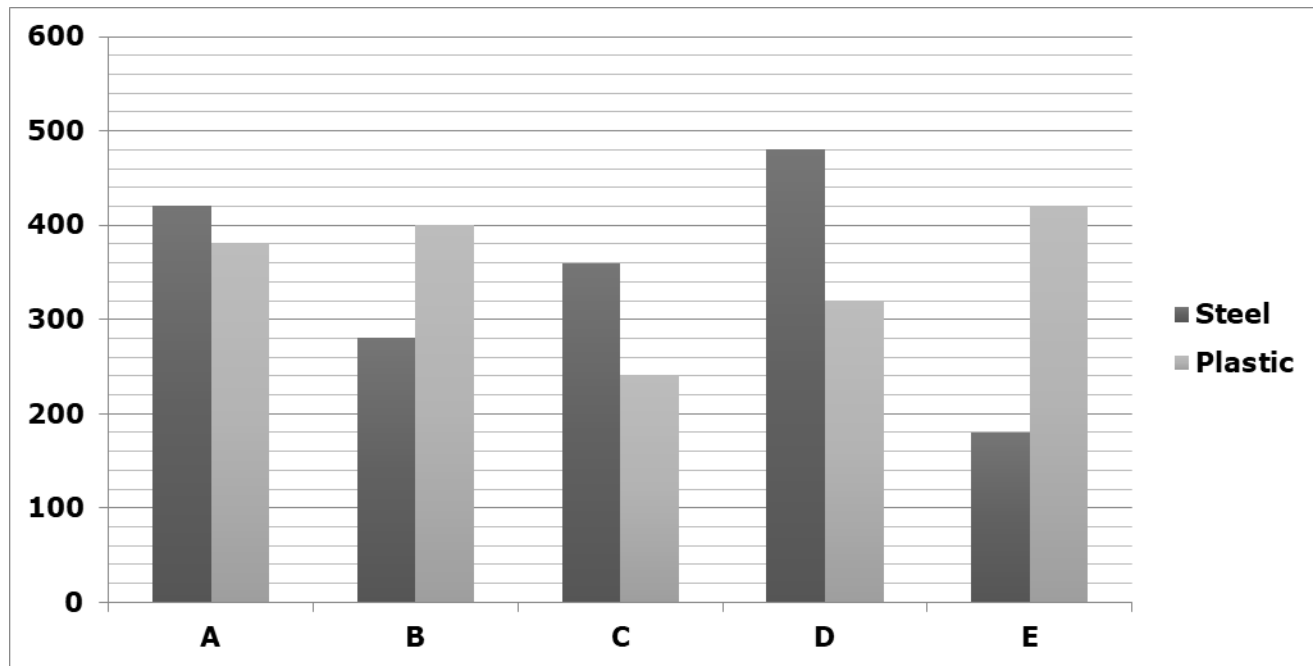


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Directions (1-5): Study the following information carefully and answer the questions given below.

The given bar graph shows the number of steel and plastic water bottles in five different shops.



1) The number of steel bottles in A is what percent of the number of steel bottles in D?

- a) 82.5%
- b) 87.5%
- c) 90.5%
- d) 78.5%
- e) 75.5%

2) What is the average number of plastic bottles in all the shops together?

- a) 352
- b) 356
- c) 350

d) 354

e) 358

3) What is the ratio of the number of steel and plastic bottles in B and E?

- a) 7:5
- b) 12:7
- c) 17:15
- d) 15:13
- e) 4:3

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4) The number of plastic bottles in A and C together is what percent of the number of steel bottles in C and D together?

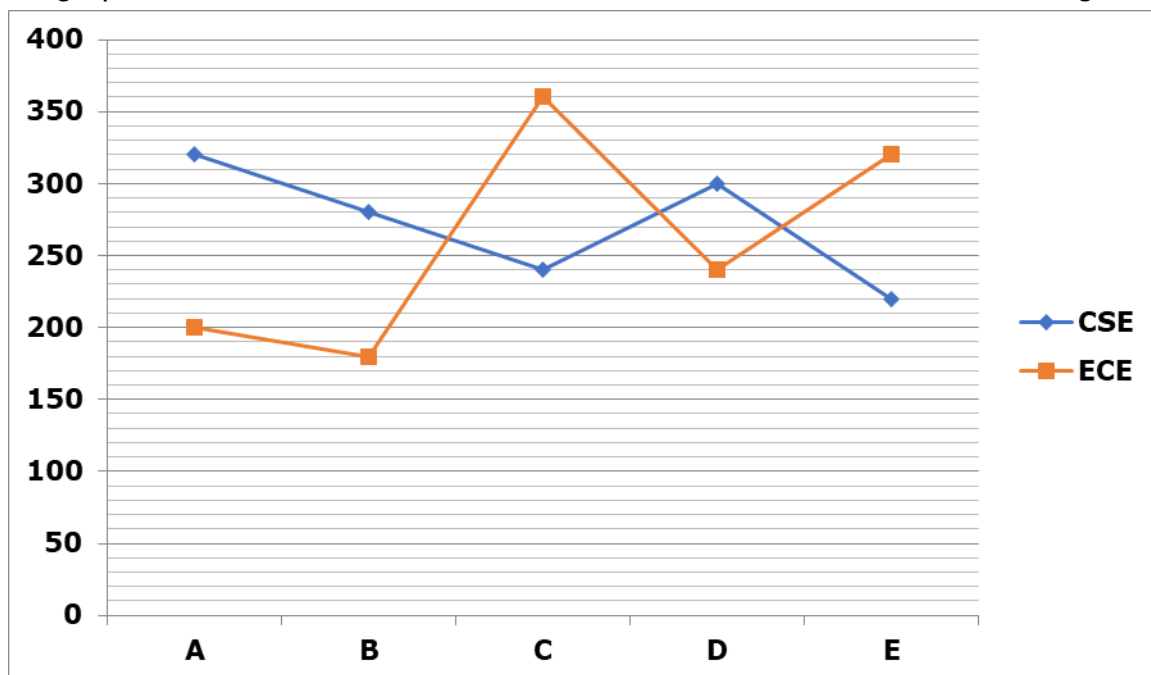
- a) 73.8%
- b) 75.9%
- c) 77.3%
- d) 79.5%
- e) 71.4%

5) What is the ratio of the number of steel bottles in A and E together to the number of plastic bottles in B and E together?

- a) 29:39
- b) 30:37
- c) 29:37
- d) 30:41
- e) 29:41

Directions (6-10): Study the following information carefully and answer the questions given below.

The given line graph shows the number of CSE and ECE students in five different colleges.



6) What is the ratio of the number of ECE and CSE students in A and E?

- a) 26:27
- b) 28:29

- c) 29:30
- d) 25:26
- e) 24:25

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7) The number of CSE students in C is what percent of the number of ECE students in B?

- a) 122.22%
- b) 133.33%
- c) 144.44%
- d) 111.11%
- e) 155.55%

8) What is the average number of CSE students in all the colleges together?

- a) 258
- b) 268
- c) 272
- d) 278
- e) 262

9) What is the difference between the number of ECE students in C and D together and the number of CSE students in B and E together?

- a) 100
- b) 120
- c) 80
- d) 90
- e) 110

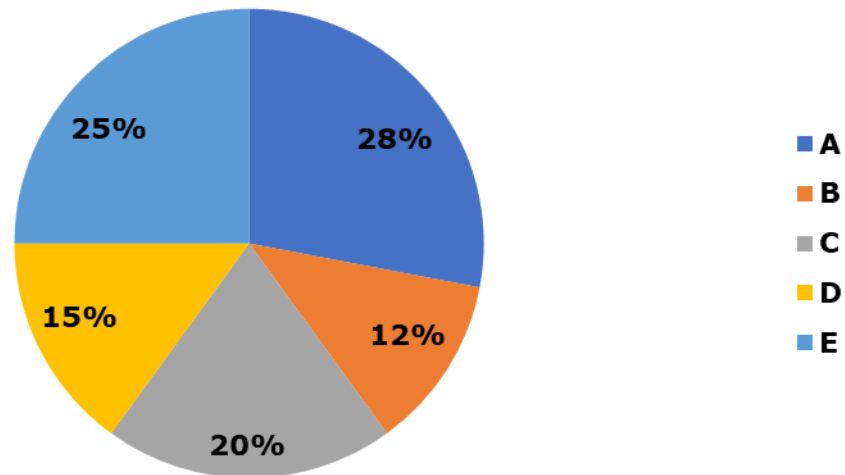
10) The number of ECE and CSE students in B is approximately what percent of the number of ECE and CSE students in D?

- a) 82%
- b) 85%
- c) 88%
- d) 91%
- e) 94%

Directions (11-15): Study the following information carefully and answer the questions given below.

The given pie chart shows the number of students in five different classes.

Total number of students = 3600



11) The number of boys and girls in class A is 4:3. Find the difference between the number of boys and girls in class A?

- a) 132
- b) 136
- c) 140
- d) 144
- e) 148

12) What is the ratio of the number of students in D and C?

- a) 3:5
- b) 2:3
- c) 3:4
- d) 1:2
- e) None of these

13) The number of students in class B is what percent of the number of students in E?

- a) 45%

- b) 48%
- c) 52%
- d) 42%
- e) 56%

14) The number of students in F is 25% more than the number of students in A. What is the difference between the number of students in F and D?

- a) 720
- b) 750
- c) 780
- d) 810
- e) 840

15) What is the average number of students in B, C and E together?

- a) 682
- b) 684

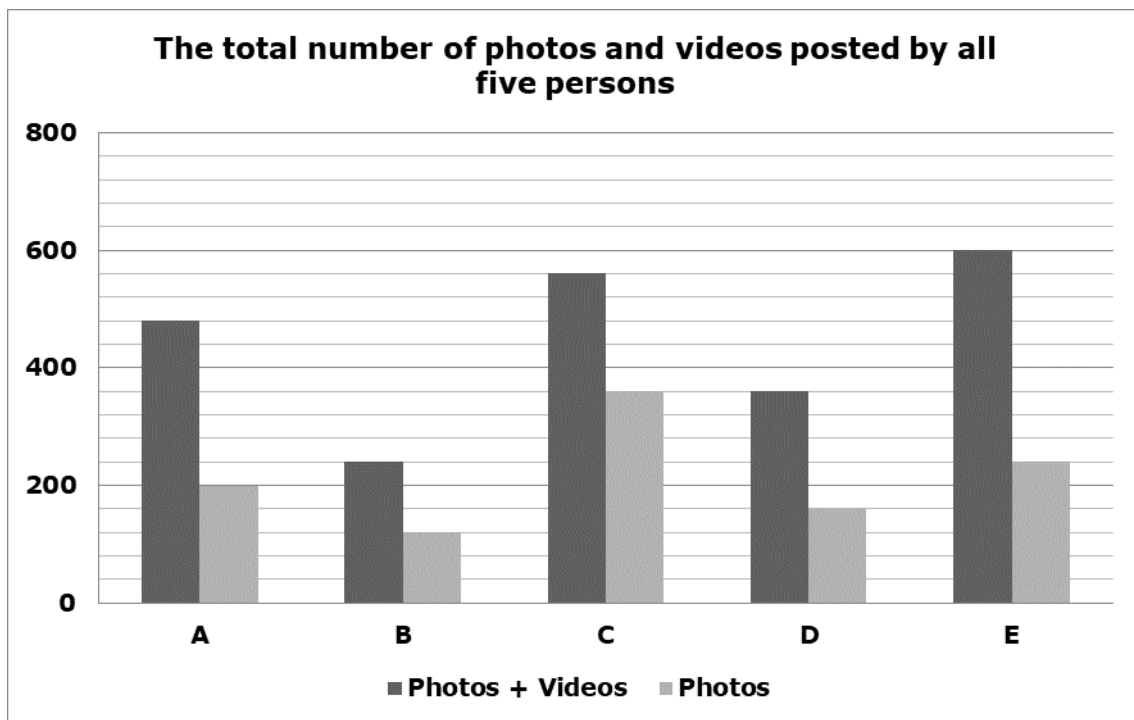
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- c) 688
- d) 690

e) 680

Directions (16-20): Read the following information carefully and answer the questions.

The given bar graph shows the total number of photos and videos posted by five different persons (A, B, C, D and E) in the year 2000 and also given the total number of photos posted by five persons in the year 2000.



16) If the average number of videos posted by F and B is 150 and then find the ratio of the total number of videos posted by F and photos posted by C?

- a) 1:2
- b) 3:4
- c) 6:5
- d) 8:7
- e) None of these

17) The total number of photos and videos posted by C is how much more/less than the total number of photos posted by E and D?

- a) 150 less
- b) 190 more
- c) 110 less
- d) 160 more
- e) None of these

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18) The total number of photos posted by A and D together is what percentage of the total number of photos and videos posted by E?

- a) 25%
- b) 60%
- c) 40%
- d) 35%
- e) None of these

19) If the total number of photos and videos posted by B in the year 2001 is 40 more and 20 less than that of 2000 respectively and then find the total number of photos and videos posted by B in the year 2001?

- a) 240
- b) 220
- c) 260
- d) 280
- e) None of these

20) Find the difference between the total number of photos and videos together posted by A and B?

- a) 240
- b) 180
- c) 200
- d) 120
- e) None of these

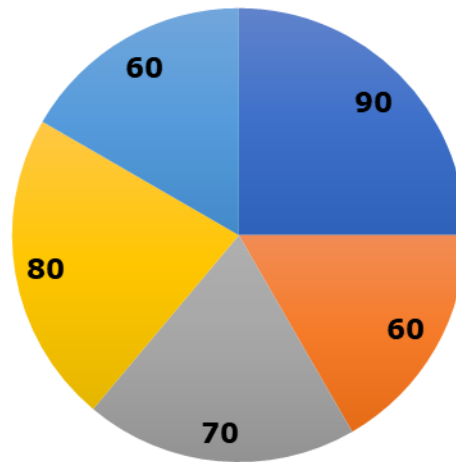
Directions (21-25): Read the following information carefully and answer the questions.

The given pie chart shows the total weight of five dry fruits i.e. cashews, dates, walnuts, raisins and almonds (in kg) sold in January.

Note: The given values are in degrees

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The total weight of five dry fruits sold (in kg)=1800



■ Cashews ■ Dates ■ Walnuts ■ Raisins ■ Almonds

21) If the total weight of walnuts sold in March is 28.56% more than that of January and then the total weight of walnuts sold in March is what percentage of the total weight of dates sold in January?

- a) 180%
- b) 150%
- c) 120%
- d) 190%
- e) None of these

22) Out of the total weight of cashews sold, 33.33% of the cashews sold for males and then find the total weight of cashews sold for females?

- a) 300
- b) 280
- c) 150

- d) 360
- e) None of these

23) Find the difference between the total weight of raisins and almonds sold in January?

- a) 70
- b) 120
- c) 90
- d) 100
- e) None of these

24) The total weight of cashews sold is what percentage more than the total weight of dates sold?

- a) 70%
- b) 60%
- c) 50%
- d) 20%

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e) None of these

25) If the selling price of walnuts is Rs.160 per kg and then find 12.5% of the total revenue generated by selling walnuts in January?

- a) Rs.3600
- b) Rs.7000
- c) Rs.2800
- d) Rs.4500
- e) None of these

Directions (26-30): Read the following information carefully and answer the questions.

The given table chart shows the number of iPhones sold in five different shops (A, B, C, D and E) and also given the ratio of the number of iPhones and iPads sold in five different shops.

Shops	The number of iPhones sold	Ratio of the number of iPhone and iPad sold
A	240	6:5
B	180	9:7
C	360	12:7
D	400	5:4
E	320	8:9

26) Out of the number of iPhones and iPads sold in shop E, 25% of iPhones and iPads sold for females and then find the number of iPhones and iPads sold for males in shop E?

a) 510

- b) 450
- c) 380
- d) 640
- e) None of these

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27) Find the difference between the number of iPads sold in shop A and the number of iPhones sold in shops B and D together?

- a) 370
- b) 350
- c) 300
- d) 380
- e) None of these

28) Find the ratio of the number of iPhones and iPads sold in shop B to the number of iPhones sold in shop D?

- a) 3:2
- b) 4:5
- c) 9:8
- d) 7:5
- e) None of these

29) If the number of iPhones and iPads sold in shop F is 20% and 14.28% more than that of shop B and then find the number of iPhones and iPads sold in shop F?

- a) 196
- b) 254
- c) 376
- d) 152
- e) None of these

30) The number of iPads sold in shop B is what percentage of the number of iPhones sold in shop D?

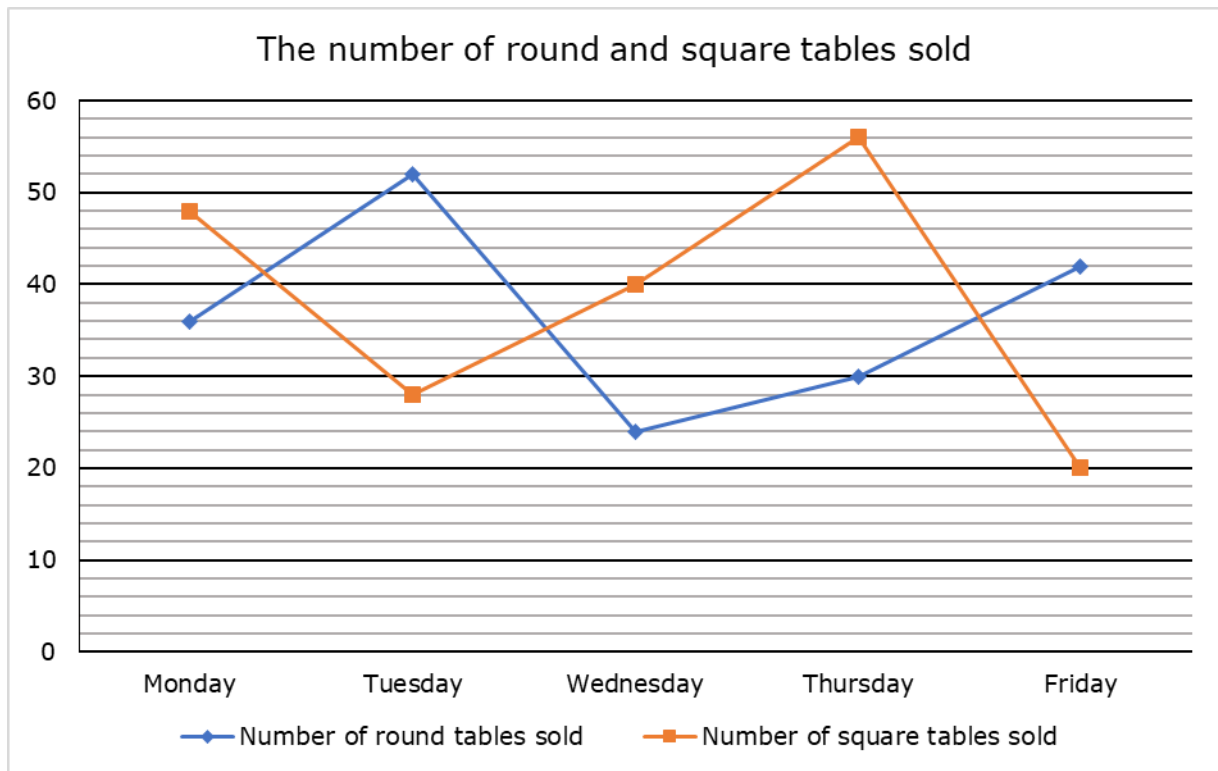
- a) 35%
- b) 20%
- c) 15%
- d) 50%
- e) None of these

Directions (31-35): Read the following information carefully and answer the questions.

The given line graph shows the number of round and square tables sold on five different days in a week i.e. Monday, Tuesday, Wednesday, Thursday and Friday.

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31) If $\frac{2}{3}$ and $\frac{3}{8}$ of the round and square tables sold on Monday are wood and then find the sum of the number of round and square tables sold on Monday are other than wood?

- a) 42
- b) 36
- c) 54
- d) 48
- e) None of these

32) The number of square tables sold on Monday is how much percentage more than the number of round tables sold on Thursday?

- a) 40%
- b) 25%
- c) 60%
- d) 15%

e) None of these

33) If the selling price of each round table on Friday is Rs.2000 and all the square tables sold for Rs.30000 on Friday and then find the difference between the selling price of a round and square table on Friday?

- a) Rs.300
- b) Rs.400
- c) Rs.250
- d) Rs.500
- e) None of these

34) Find the ratio of the number of round and square tables sold on Tuesday to Wednesday?

- a) 3:2
- b) 5:4

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- c) 6:7
- d) 8:5
- e) None of these

35) Find the difference between the number of round and square tables sold on Thursday and

the number of square tables sold on Wednesday and Friday together?

- a) 26
- b) 22
- c) 24
- d) 20
- e) None of these

Directions (36–40): Read the following information carefully and answer the questions.

The given table chart shows the total number of online and offline shoppers (males and females) in four different cities i.e. A, B, C and D.

The total number of shoppers=Men + Women

City	Online		Offline	
	The total number of shoppers	Male shoppers	The total number of shoppers	Male shoppers
A	200	120	300	180
B	350	200	250	100
C	400	150	100	60
D	150	80	240	120

36) The number of online women shoppers in cities B and C together is how much more than the number of offline men shoppers in cities B and D?

- a) 250 more
- b) 150 less
- c) 210 less

- d) 180 more
- e) None of these

37) If the total number of online and offline shoppers in city E is 25% less and 40% more than that of city C and then find the total number of online and offline shoppers in city E?

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- a) 280
- b) 350
- c) 440
- d) 500
- e) None of these

38) Find the ratio of the maximum number of shoppers in the city and the minimum number of shoppers in the city (both online and offline)?

- a) 20:13
- b) 31:19
- c) 15:7
- d) 17:12
- e) None of these

39) Find the total number of online and offline men shoppers in cities A and C?

- a) 270
- b) 510
- c) 330
- d) 450
- e) None of these

40) The number of offline women shoppers in cities B and D is what percentage more than the number of online men shoppers in city B?

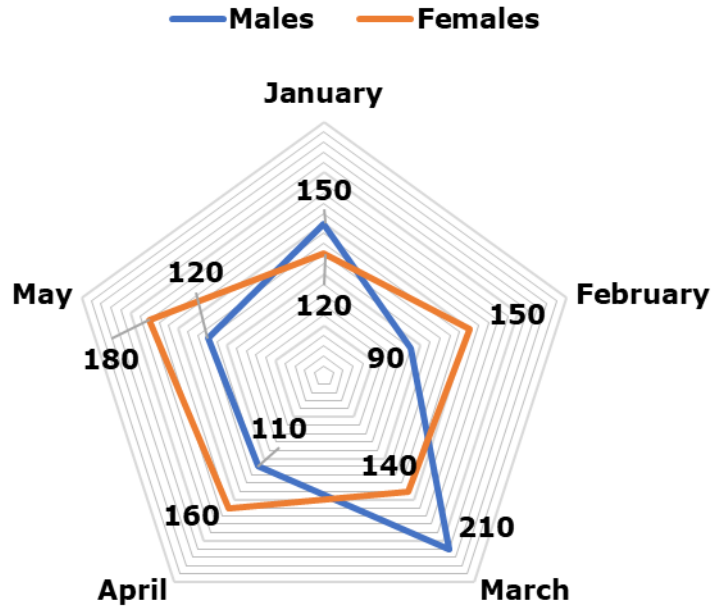
- a) 20%
- b) 55%
- c) 10%
- d) 35%
- e) None of these

Directions (41-45): Read the following information carefully and answer the questions.

The given radar graph shows the total number of guitars sold for males and females in five different months (January, February, March, April and May).

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The total number of guitars sold for males and females



41) If the total number of guitars sold for males and females in July is 25% more than that of February and then find the total number of guitars sold for males and females in July?

- a) 320
- b) 180
- c) 250
- d) 300
- e) None of these

42) Find the ratio of the total number of guitars sold for males in January and May together and the total number of guitars sold for females in May?

- a) 3:2

- b) 4:5
- c) 7:6
- d) 9:4
- e) None of these

43) The total number of guitars sold for males in March is what percentage more than the total number of guitars sold for females in January?

- a) 25%
- b) 50%
- c) 75%
- d) 60%
- e) None of these

44) Out of the total number of guitars manufactured in May, 45% of the guitars sold for females and then find the total number of guitars unsold in May?

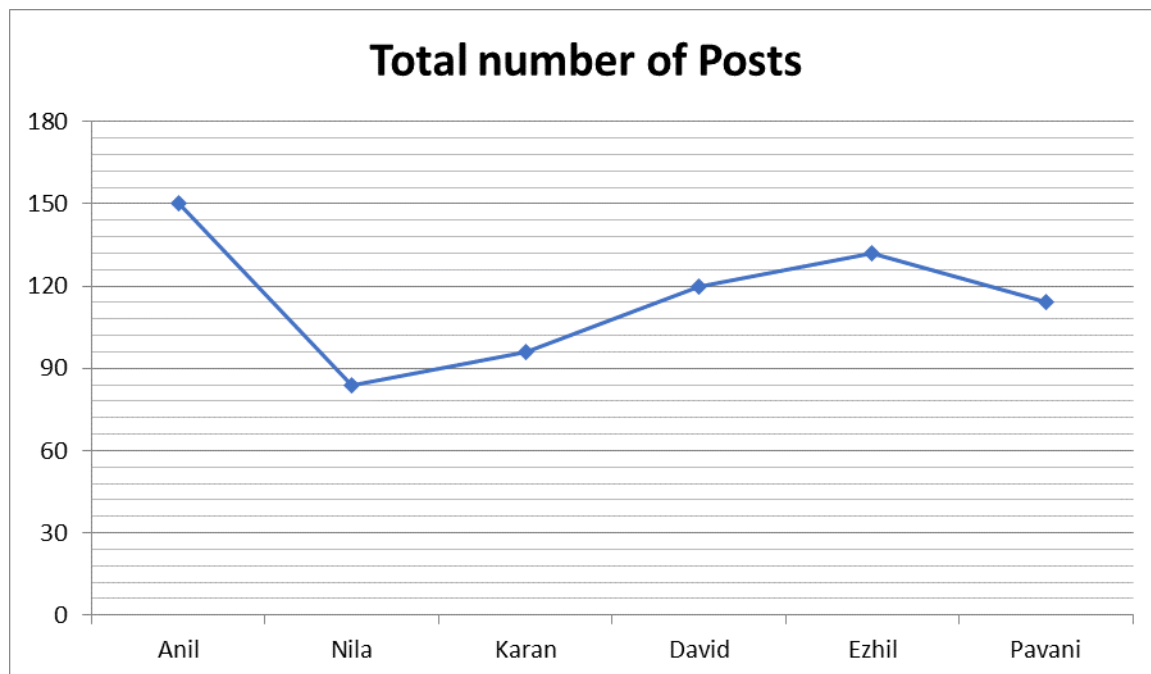
- a) 210
- b) 100
- c) 300
- d) 180
- e) None of these

45) The total number of guitars sold for males and females in April is how much less than the total number of guitars sold for females in February?

- a) 160
- b) 110
- c) 150
- d) 120
- e) None of these

Directions (46-50): Study the following information carefully and answer the questions given below.

The given line graph shows the total number of posts (Facebook and Instagram) shared by six different persons.



46) What is the ratio of the total number of posts shared by Karan to David?

- a) 3:4

b) 4:5

c) 2:3

d) 5:6

e) None of these

47) The number of posts shared by sharu is 25% more than that of Nila and the number of posts shared by Anu is 26 more than the number of posts shared by Pavani. Find the difference between the number of posts share by Anu and Sharu?

- a) 35
- b) 40
- c) 50
- d) 45
- e) 30

48) Ratio of the number of facebook and instagram posts shared by Anil and Karan is 3:2 and 5:3 respectively. Find the total number of facebook posts shared by Anil and Karan?

- a) 120
- b) 140
- c) 150

d) 170

e) 190

49) Total number of posts share by Pavani is what percent of the number of posts shared by Ezhil?

- a) 85.35%
- b) 86.36%
- c) 87.87%
- d) 88.88%
- e) 89.89%

50) The number of instagram posts shared by Nila is 45% of the total number of posts shared by David. Find the number of Facebook posts shared by Nila?

- a) 25
- b) 15
- c) 20
- d) 30
- e) 35

Answer With Explanation

1) Answer: B

$$\begin{aligned} \text{Required percentage} &= 420/480 * 100 \\ &= 87.5\% \end{aligned}$$

2) Answer: A

$$\begin{aligned} \text{Required average} &= (380 + 400 + 240 + 320 + \\ &420)/5 \\ &= 352 \end{aligned}$$

3) Answer: C

$$\begin{aligned} \text{Required ratio} &= (280 + 400):(180 + 420) \\ &= 680:600 \\ &= 17:15 \end{aligned}$$

4) Answer: A

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$$\begin{aligned} \text{Required percentage} &= (380 + 240)/(360 + 480) \\ &* 100 \\ &= 620 * 100 / 840 = 73.8\% \end{aligned}$$

5) Answer: D

$$\begin{aligned} \text{Required ratio} &= (420 + 180):(400 + 420) \\ &= 600:820 \\ &= 30:41 \end{aligned}$$

6) Answer: A

$$\begin{aligned} \text{Required ratio} &= (200 + 320):(220 + 320) \\ &= 520:540 \\ &= 26:27 \end{aligned}$$

7) Answer: B

$$\begin{aligned} \text{Required percentage} &= 240/180 * 100 \\ &= 133.33\% \end{aligned}$$

8) Answer: C

$$\begin{aligned} \text{Required average} &= (320 + 280 + 240 + 300 + \\ &220)/5 \\ &= 272 \end{aligned}$$

9) Answer: A

$$\begin{aligned} \text{Required difference} &= (360 + 240) - (220 + 280) \\ &= 100 \end{aligned}$$

10) Answer: B

$$\begin{aligned} \text{Required percentage} &= (280 + 180)/(240 + 300) \\ &* 100 \\ &= 460 * 100 / 540 = 85\% \end{aligned}$$

11) Answer: D

$$\text{Required difference} = 1/7 * 28/100 * 3600 = 144$$

12) Answer: C

$$\begin{aligned} \text{Required ratio} &= 15:20 \\ &= 3:4 \end{aligned}$$

13) Answer: B

$$\begin{aligned} \text{Required percentage} &= 12/25 * 100 \\ &= 48\% \end{aligned}$$

14) Answer: A

$$\begin{aligned} \text{Required difference} &= (28 * 125/100 - 15)/100 * \\ &3600 \\ &= 720 \end{aligned}$$

15) Answer: B

$$\begin{aligned} \text{Required average} &= (12 + 20 + 25)/300 * 3600 \\ &= 684 \end{aligned}$$

16) Answer: A

The total number of photos and videos posted by B=240

The total number of videos posted by B=240-120=120

The total number of videos posted by B and F=150*2=300

The total number of videos posted by F=300-120=180

The total number of photos posted by C=360

Required ratio=180:360=1:2

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17) Answer: D

The total number of photos and videos posted by C=560

The total number of photos posted by D and E=160+240=400

Required difference=560-400=160 more

18) Answer: B

The total number of photos posted by A and D=200+160=360

The total number of photos and videos posted by E=600

Required percentage=360/600*100=60%

19) Answer: C

The total number of photos and videos posted by B in the year 2000=240

The total number of photos and videos posted by B in the year 2001=240+40-20=260

20) Answer: A

Required difference=480-240=240

21) Answer: B

The total weight of walnuts sold in January=70% of 1800=70*1800/360=70*5=350

The total weight of walnuts sold in March=350*9/7=450

The total weight of dates sold in January=60% of 1800=60*5=300

Required percentage=450/300*100=150%

22) Answer: A

The total weight of cashews sold=90% of 1800=90*1800/360=90*5=450

The total weight of cashews sold for females=450*2/3=300

23) Answer: D

The total weight of raisins sold in January=80% of 1800=80*5=400

The total weight of almonds sold in January=60% of 1800=60*5=300

Required difference=400-300=100

24) Answer: C

The total weight of cashews sold=90% of 1800=90*1800/360=90*5=450

The total weight of dates sold=60% of 1800=60*5=300

Required percentage=(450-300)/300*100=150/3=50%

25) Answer: B

The total weight of walnuts sold=70% of 1800=70*5=350

The 12.5% of the total revenue generated by walnuts sold=350*160/8=Rs.7000

26) Answer: A

The number of iPhones sold in shop E=320

The number of iPads sold in shop E=320/8*9=360

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The number of iPhones and iPads sold in shop

$$E=320+360=680$$

The number of iPhones and iPads sold for

$$\text{males in shop } E=680 \times \frac{3}{4}=510$$

27) Answer: D

The number of iPhones sold in shops B and

$$D=180+400=580$$

The number of iPhones sold in shop A=240

The number of iPads sold in shop

$$A=240 \times \frac{5}{6}=200$$

$$\text{Required difference}=580-200=380$$

28) Answer: B

The number of iPhones sold in shop B=180

The number of iPhones and iPads sold in shop

$$B=180/9 \times 16=320$$

The number of iPhones sold in shop D=400

$$\text{Required ratio}=320:400=4:5$$

29) Answer: C

The number of iPhones sold in shop B=180

The number of iPhones sold in shop

$$F=180 \times \frac{6}{5}=216$$

The number of iPads sold in shop

$$B=180 \times \frac{7}{9}=140$$

The number of iPads sold in shop

$$F=140 \times \frac{8}{7}=160$$

$$\text{Required sum}=216+160=376$$

30) Answer: A

The number of iPhones sold in shop D=400

The number of iPhones sold in shop B=180

The number of iPads sold in shop

$$B=180 \times \frac{7}{9}=140$$

$$\text{Required ratio}=140/400 \times 100=35\%$$

31) Answer: A

The number of round tables sold on Monday=36

The number of round tables sold on Monday is

$$\text{other than wood}=36 \times \frac{1}{3}=12$$

The number of square tables sold on

$$\text{Monday}=48$$

The number of square tables sold on Monday is

$$\text{other than wood}=48 \times \frac{5}{8}=30$$

$$\text{Required sum}=12+30=42$$

32) Answer: C

Required percentage=(48-

$$30)/30 \times 100=18/30 \times 100=60\% \text{ more}$$

33) Answer: D

All the square tables sold on Friday=Rs.30000

The selling price of each square table on

$$\text{Friday}=30000/20=\text{Rs.}1500$$

$$\text{Required difference}=2000-1500=\text{Rs.}500$$

34) Answer: B

The number of round and square tables sold on
Tuesday=52+28=80

The number of round and square tables sold on
Wednesday=24+40=64

$$\text{Required ratio}=80:64=5:4$$

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35) Answer: A

The number of round and square tables sold on

Thursday= $30+56=86$

The number of square tables sold on

Wednesday and Friday= $40+20=60$

Required difference= $86-60=26$

36) Answer: D

The number of online women shoppers in city

B= $350-200=150$

The number of online women shoppers in city

C= $400-150=250$

The number of online women shoppers in cities

B and C= $150+250=400$

The number of offline men shoppers in cities B

and D= $100+120=220$

Required difference= $400-220=180$ more

37) Answer: C

The number of online shoppers in city C=400

The number of online shoppers in city E=75% of

$400=400 \times \frac{3}{4}=300$

The number of offline shoppers in city C=100

The number of offline shoppers in city E=140% of 100=140

Required total= $300+140=440$

38) Answer: A

The total number of online and offline shoppers

in city A= $200+300=500$

The total number of online and offline shoppers in city B= $350+250=600$

The total number of online and offline shoppers in city C= $400+100=500$

The total number of online and offline shoppers in city D= $150+240=390$

Required ratio= $600:390=20:13$

39) Answer: B

The number of online and offline men shoppers in city A= $120+180=300$

The number of online and offline men shoppers in city C= $150+60=210$

Required total= $210+300=510$

40) Answer: D

The number of offline women shoppers in city B= $250-100=150$

The number of offline women shoppers in city D= $240-120=120$

The number of offline women shoppers in cities B and D= $150+120=270$

The number of online men shoppers in city B=200

Required percentage= $(270-200)/200 \times 100=70/2=35\%$

41) Answer: D

The total number of guitars sold for males and females in February= $90+150=240$

The total number of guitars sold for males and females in July= $240 \times \frac{5}{4}=300$

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42) Answer: A

The total number of guitars sold for males in January and May = $150 + 120 = 270$

The total number of guitars sold for females in May = 180

Required ratio = $270 : 180 = 3 : 2$

43) Answer: C

Required percentage = $(210 - 120) / 120 * 100 = 90 / 120 * 90 = 75\%$

44) Answer: B

The total number of guitars sold for males and females in May = $120 + 180 = 300$

The total number of guitars manufactured in May = $180 * 20 / 9 = 400$

The total number of guitars unsold in May = $400 - 300 = 100$

45) Answer: D

The total number of guitars sold for males and females in April = $110 + 160 = 270$

Required difference = $270 - 150 = 120$

46) Answer: B

Required ratio = $96 : 120$

= $4 : 5$

47) Answer: A

Required difference = $(114 + 26) - 84 * 125 / 100$

= 35

48) Answer: C

Required total = $3/5 * 150 + 5/8 * 96 = 150$

49) Answer: B

Required % = $114 / 132 * 100 = 86.36\%$

50) Answer: D

Required total = $84 - (120 * 45 / 100) = 30$