



Pie Chart

Solution

1. Answer: (B)

Let total cars manufactured by Daewoo in 2015 = 200x

So, Let total cars manufactured by Daewoo in 2016 = 225x

Cars manufactured by Zen in 2015

$$= \frac{20}{100} \times \frac{225x}{10} \times 40$$

$$= \frac{225x}{5} \times 4$$

$$= 45 \times 4 \times x$$

$$= 180x$$

Required ratio = 200:180

= 10:9

2. Answer: (D)

Let total cars manufactured in 2016 = 100xCars manufactured by Maruti in 2016 = 40xCars manufactured by Zen and Esteem in $2015 = \frac{30}{100} \times 40x \Rightarrow = 12x$ Required ratio = $\overline{12}$: 10 mock test platform = 6:5

3. Answer: (C)

Model Esteem of Maruti manufactured in 2015 = 15000

Total Maruti cars manufactured in 2015

$$= \frac{15000}{10} \times 100$$
$$= 1,50,000$$

Average of cars of Hyundai and Daewoo manufactured in 2016

$$= \frac{1}{2}(25+10) \times \frac{150000}{40}$$
$$= 65625$$

4. Answer: (E)

Let total cars manufactured of Maruti in 2016 = 900x

So, cars sold of Maruti in 2016 = 800xCars of model Zen manufactured by Maruti

$$= 900x \times \frac{20}{100}$$
$$= 180x$$

Required percentage = $\frac{180}{800} \times 100 = 22.5\%$

5. Answer: (B)

Let Hyundai cars manufactured in 2016 = 500x

So, Hyundai cars sold in 2016 = 400x

Maruti 800 manufactured in 2015

$$= \frac{500x}{25} \times 40 \times \frac{60}{100}$$
$$-480x$$

Maruti 800 sold in 2015

$$= \frac{90}{100} \times 480x$$

= 432x

Required ratio = 400:432

= 25:27

6. Answer: (B)

Numbered of candidates appeared at Centre $B = \frac{20 \times 4000}{100} = 800$

Numbered of candidates selected = 10% = $\frac{10 \times 800}{100} = 80$

Answer: (A)

Candidates appeared at Centre D on (weekends + weekdays) = $\frac{18 \times 4000}{100}$ = 720 Candidates appeared at Centre B on weekends = $\frac{35 \times 1500}{100}$ = 525 Ratio = 720:525 = 48:35

8. Answer: (D)

Candidates appeared at Centre A and B together on weekends = $\frac{65 \times 1500}{100} = 975$ Candidates appeared at Centre B and E together on (weekends + weekdays) $=\frac{42\times4000}{100}=1680$ Percentage = $\frac{975}{1680} \times 100 = 58.03 = 58\%$

9. Answer: (C)

Candidates appeared at Centre A, B and D on weekends = $\frac{85 \times 1500}{100}$ = 1275 Average = $\frac{1275}{3}$ = 425

10. Answer: (C)



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Candidates appeared at Centre C on weekends = $\frac{10 \times 1500}{100}$ = 150 Candidate appeared at Centre B on $(\text{weekends} + \text{weekdays}) = \frac{20 \times 4000}{100} = 800$ Percentage = $\frac{800-150}{800} \times 100 = 81.25\%$ = 81%

11.

Answer: (A) Total orange sold on Monday $=600 \times 12/100 = 72$ Total orange sold on Wednesday $=600 \times 18/100 = 108$ Total orange sold on Monday and Wednesday = 72 + 108 = 180The average number of orange sold on Monday, Wednesday together = 180/2 = 90Total orange sold on Tuesday $=600 \times 20/100 = 120$ Total orange sold on Thursday $= 600 \times 14/100 = 84$ Total orange sold on Saturday $= 600 \times 8/100 = 48$ Total orange sold on Tuesday, Thursday, and Saturday = 120 + 84 + 48 = 252

The average number of orange sold on Tuesday, Thursday, and Saturday = 252/3 = 84Difference = 90 - 84 = 6

: The difference between the average number of orange sold on Monday, Wednesday to Tuesday, Thursday, and Saturday is 6 Total % of orange sold on Monday and Wednesday together = 12% + 18% = 30%Total number of orange sold on Monday and Wednesday together = $600 \times 30/100 = 180$ The average number of orange sold on Monday, Wednesday together = 180/2 = 90Total % of orange sold on Tuesday, Thursday, and Saturday together =20% + 14% + 8% = 42%Total number of orange sold on Tuesday, Thursday, and Saturday together

 $=600 \times 42/100 = 252$

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The average number of orange sold on Tuesday, Thursday, and Saturday

= 252/3 = 84

Difference = 90 - 84 = 6

: The difference between the average number of orange sold on Monday, Wednesday to Tuesday, Thursday, and Saturday is 6

12. Answer: (C)

Total oranges sold on Monday $=600 \times 12/100 = 72$ Total oranges sold on Sunday $=600 \times 12/100 = 72$ Total oranges sold on Monday and Sunday = 72 + 72 = 144Total oranges sold on Wednesday $=600 \times 18/100 = 108$ Difference between the total oranges sold on Monday and Sunday together to total oranges sold on Wednesday = 144 - 108: The difference between the total oranges

sold on Monday and Sunday together to total oranges sold on Wednesday is 36 Answer: (D)

Total % of oranges sold on Tuesday and Friday = 36%Total % of oranges sold on Wednesday and Sunday = 30%Required Ratio = 36:30=6:5

∴ The ratio of oranges sold on Tuesday and Friday to Oranges sold on Wednesday and Sunday is 6:5

14. Answer: (E)

Total orange sold on Wednesday $=600 \times (18/100) = 108$ Total orange sold on Friday $=600 \times (16/100) = 96$ Total orange sold on Wednesday and Friday = 108 + 96 = 204Total orange sold on Monday $=600 \times 12/100 = 72$ Total orange sold on Tuesday $=600 \times 20/100 = 120$



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Total orange sold on Saturday = $600 \times 8/100$

Total orange sold on Monday, Tuesday, and Saturday = 72 + 120 + 48 = 240

Now required percentage

 $= [(204 - 240)/240] \times 100 = -15\%$

∴ The total number of oranges sold on Wednesday and Friday together is 15% less than the number of sold on Monday, Tuesday and Saturday together

Total orange sold on Wednesday and Friday = 18% + 16% = 34%Total orange sold on Monday, Tuesday, and Saturday = = 12 + 20 + 8 = 40%Now required percentage = $[(34-40)/40] \times$ 100 = -15%

- ∴ The total number of oranges sold on Wednesday and Friday together is 15% less than the number of oranges sold on Monday, Tuesday and Saturday together
- 15. Answer: (C)

Total orange sold on Tuesday

 $=600 \times (20/100) = 120$

Total orange sold on Friday

 $=600 \times (16/100) = 96$

Total orange sold on Tuesday and Friday

= 120 + 96 = 216

We know that, $360^{\circ} = 600$

- $\Rightarrow 600 = 360^{\circ}$
- $\Rightarrow 1 = 360^{\circ}/600 = 3/5$
- $\Rightarrow 216 = (3/5) \times 216 = 648/5 = 129.6^{\circ}$
- ∴ The central angle made by the oranges sold on Tuesday and Friday together is 129.6°

Total orange sold on Tuesday = 20%

Total orange sold on Friday = 16%

Total orange sold on Tuesday and Friday

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=20% + 16% = 36%

So, 100% = 360

Then, $36\% = (360/100) \times 36 = 129.6^{\circ}$

∴ The central angle made by the oranges sold on Tuesday and Friday together is 129.6°

16. Answer: (D)

Average percentage of book sold by B and

D together = (18 + 22)/2 = 20%

Percentage of book sold by A = 20%

 \therefore Required ratio = 1:1

17. Answer: (C)

Average percentage of book sold by B and E together = (22 + 26)/2 = 24%

Average percentage of book sold by C and

D together = (18 + 14)/2 = 16%

Percentage difference = 24 - 16 = 8%

 \therefore Required difference = 8% of 750 = 60

18. Answer: (B)

Percentage of book sold on Tuesday

 $=20 \times 115/100 = 23\%$

Percentage of book sold by D on Monday = 18%

 \therefore Required percentage = $(23 - 18) \times 100/18$ =500/18=27.78%

Answer: (E)

Percentage of books sold by D and E

together = 44%

Percentage of book sold by B and D together =40%

: Ratio of angle made on pie chart

 $= (44 \times 360/100) : (40 \times 360/100) = 11 : 10$

20. Answer: (A)

Percentage of books sold on Monday by B = 22%

So book sold by B = 22% of 750 = 165

 \therefore Book sold by $F = 165 \times 120/100$

 $= 165 \times 6/5 = 198$