



IBPS PRELIMS - 30 DAYS REVISION PLAN

CLASS 23 - DATA INTERPRETATION (PIE)

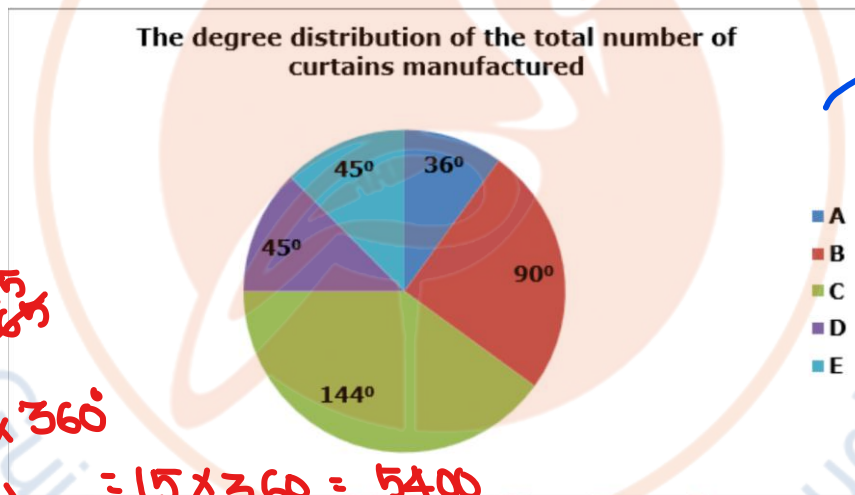
Percentage $\rightarrow 100\%$
Degree $\rightarrow 360^\circ$

Set 1

Directions:

Study the following information carefully and answer the questions.

The given pie chart shows the degree distribution of the total number of curtains manufactured in five different shops namely A, B, C, D and E. The difference between the total number of curtains manufactured in shops C and D is 1485.



$$144^\circ - 45^\circ$$

$$99 = 1485$$

$$1^\circ = \frac{1485}{99} = 15$$

$$360^\circ = \frac{1485}{99} \times 360^\circ = 15 \times 360 = 5400$$

A	36°	540
B	90°	1350
C	144°	2160
D	45°	675
E	45°	675

Total $\rightarrow 5400$

$$\begin{aligned} & \frac{36}{360} \times 5400 \\ & \frac{90}{360} \times 5400 \\ & \frac{144}{360} \times 5400 \\ & \frac{45}{360} \times 5400 \\ & \frac{45}{360} \times 5400 \end{aligned}$$

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1. The total number of curtains manufactured in shop F is 20% more than that of shop D and the ratio of the number of curtains sold to unsold in shop F is 8:1. Find the difference between the number of curtains sold and unsold in shop F.

a) 560

☒ b) 630

c) 770

d) 700

e) 490

$$F = 120\% \text{ of } D$$

$$= \frac{120}{100} \times 675$$

$$= 810$$

$$F = 810$$

$$9x = 810$$

$$x = 90$$

$$F$$

$$S : U$$

$$8 : 1 \rightarrow 9x$$

$$\text{Diff} = ?$$

$$\text{Diff} = 7x$$

$$= 7 \times 90$$

$$= 630$$

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2. Out of the total number of curtains manufactured in shop A, 60% are sold and the rest are unsold. If the average number of curtains unsold in shops A and C is 490, then find the number of curtains sold in shop C.

- ✓ a) 1396
- b) 1420
- c) 1560
- d) 1720
- e) 1990

$$A \begin{cases} 60\% \text{ S} = 54 \times 6 = 324 \\ 40\% \text{ U} \rightarrow 54 \times 4 = 216 \end{cases}$$

$$\frac{A+C}{2} = 490$$

$$A+C = 980$$

$$C = 980 - 216$$

$$C(\text{unsold}) = 764$$

$$C(\text{sold}) = 2 \times 60$$

$$= 1396$$

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3. In shop B, 70% of the curtains are sold. Out of the total number of curtains sold in shop B, $\frac{1}{9}$ th are non-defective and the rest are defective. Find the difference between the number of defective curtains sold and the number of curtains unsold in shop B.

a) 640

☒ b) 435

c) 580

d) 450

e) 570

Handwritten solution:

Let total curtains in shop B = 945 (assumed from 1350/1.5)

Sold = 70% of 945 = 661.5 (assumed from 1350 * 0.7)

Unsold = 945 - 661.5 = 283.5 (assumed from 1350 - 1066.5)

Out of 661.5 sold, $\frac{1}{9}$ are non-defective = 73.5

Defective = 661.5 - 73.5 = 588 (assumed from 1066.5 - 478.5)

Difference = Defective - Unsold = 588 - 283.5 = 304.5 (assumed from 1066.5 - 762)

Closest option is b) 435.

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4. Find the ratio of the total number of curtains manufactured in shop C to shop D.

a) 20 : 9

b) 21 : 11

☒ c) 16 : 5

d) 9 : 17

e) 22 : 29

C : D

~~21.65 : 675~~

~~43.2 : 135~~

~~48 : 15~~

16 : 5

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5. If the total number of curtains manufactured in shops E and G together is 1280, then find the total number of curtains manufactured in shop G.

a) 640

b) 720

☒ c) 605

d) 450

e) 900

$$E + G = 1280$$

$$G = 1280 - E$$

$$= 1280 - 675$$

$$= 605$$



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Set 2

Directions:

Study the following information carefully and answer the questions given below:

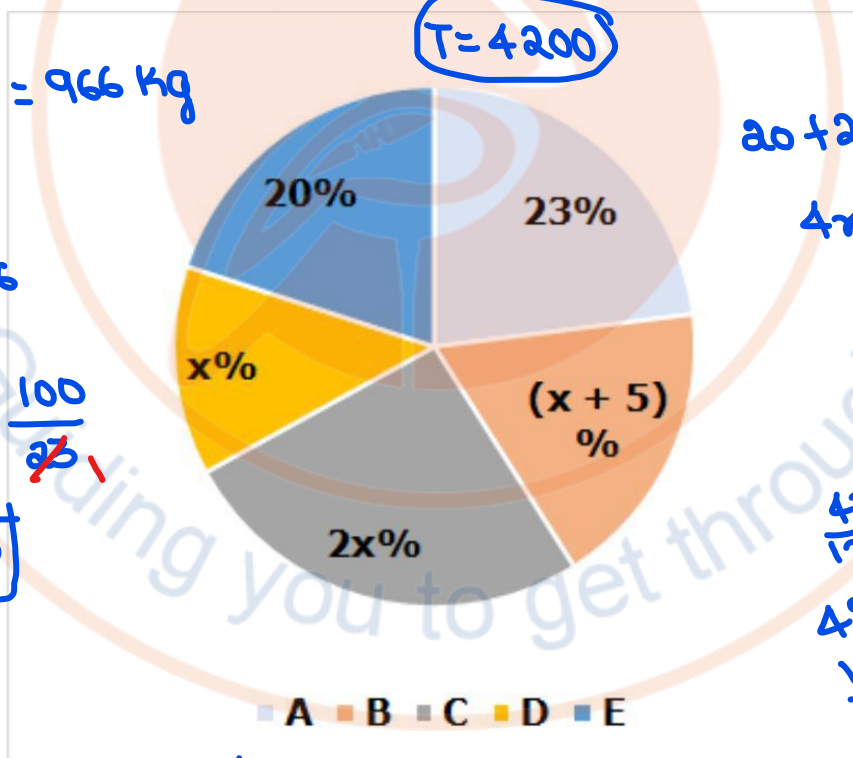
The given pie chart shows the percentage distribution of the quantity of badam sold by five different sellers on Monday. The total revenue generated by seller A by selling badam at the rate of Rs. 80 per kg is Rs. 77280.

$$A = \frac{966}{2} = 966 \text{ kg}$$

$$23\% \text{ of } T = 966$$

$$T = \frac{966 \times 100}{23}$$

$$T = 4200$$



$$20 + 23 + x + 5 + 2x + x = 100$$

$$4x + 48 = 100$$

$$4x = 52$$

$$x = 13$$

$$\frac{42 \times 3}{126} = 420$$

$$\frac{42 \times 8}{336} = 1050$$

$$\frac{420}{420} = 1$$

A	23%	23%	966
B	(x+5)%	18%	756
C	2x%	26%	1092
D	x%	13%	546
E	20%	20%	840



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6. If the quantity of badam sold by sellers B and E on Tuesday is 25% and 30% more than that on Monday respectively, then find the difference between the quantity of badam sold by sellers B and E on Tuesday?

a) 133 kg

b) 156 kg

c) 169 kg

☒ d) 147 kg

e) 124 kg

$$B_T = 125\% \text{ of } B_M$$

$$= \frac{5}{4} \times \frac{756}{189}$$

$$= 5 \times 189$$

$$= 945$$

$$E_T = 130\% \text{ of } E_M$$

$$= \frac{13}{10} \times 840$$

$$= \frac{13 \times 84}{52}$$

$$= \frac{104}{1092}$$

$$\text{Diff} = \begin{array}{r} 1092 \\ 945 \\ \hline 147 \end{array}$$

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7. If the selling price of 5 kg badam sold by seller C is Rs. 440, then find the total selling price of badam sold by seller C?

☒ a) Rs. 96096

b) Rs. 10096

c) Rs. 10240

d) Rs. 84500

e) Rs. 75600

$$T = 1092$$

$$= 1092 \times 88$$

$$\underline{8736}$$

$$8736$$

$$\underline{96096}$$

$$5 \text{ Kg} = 440$$

$$1 \text{ Kg} = \frac{440}{5}$$

$$1 \text{ Kg} = 88$$



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8. On Wednesday, the total quantity of badam sold by all the given sellers together is 5400 kg, with the percentage distribution of sellers B, C and D being the same as on Monday. If the quantity of badam sold by seller A on Wednesday is 114 kg more than on Monday, then find the quantity of badam sold by seller E on Wednesday?

a) 1296 kg

b) 1280 kg

☒ c) 1242 kg

d) 1264 kg

e) 1224 kg

(wed) $T = 5400$

$$BCD = 18 + 26 + 13 = 57\%$$

57% of 5400

$$\begin{array}{r} 32 \\ \times 57 \\ \hline 220 \\ 265 \\ \hline 3078 \end{array}$$

$B = 18\%$

$C = 26\%$

$D = 13\%$

3078

$A = 114 + A_M$

$E = ?$

$$\begin{array}{r} 39 \\ 5400 \\ 4158 \\ \hline 1242 \end{array}$$

$$\begin{array}{r} 3078 \\ 1080 \\ \hline 4158 \end{array}$$

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9. If the total quantity of badam sold by all given together, on Monday is increased by 30%, then find the difference between the quantity of badam sold by sellers B and D?

- a) 321 kg
- b) 269 kg
- c) 256 kg
- d) 343 kg
- ☒ e) 273 kg

$$\text{New} = 4200 \times \frac{130}{100}$$

$$= 42 \times 130$$

$$= 5460$$

$$\text{Diff} = 18\% - 13\% = 5\%$$

$$= \frac{5}{100} \times 5460$$

$$= 273 \text{ kg}$$

$$\begin{array}{r} 42 \times 13 \\ 126 \\ \underline{420} \\ 546 \end{array}$$



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10. If the quantity of badam sold by seller F is 342 kg less than that sold by seller B and the pie chart represents only sellers D, E and F, then find the degree distribution for the quantity of badam sold by seller F?

a) 72.8°

☒ b) 82.8°

c) 96.5°

d) 108°

e) 124°

$$F = B - 342$$

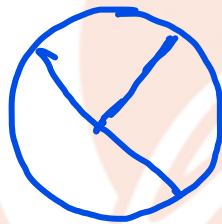
$$\begin{array}{r} 756 \\ - 342 \\ \hline 414 \end{array}$$

$$F = 414 \text{ kg}$$

$$D = 546$$

$$E = 840$$

$$F = 414$$
$$\hline 1800$$



$$= 1800$$

$$F = \frac{414}{1800} \times 360$$
$$= 82.8^\circ$$

$$= 82.8^\circ$$

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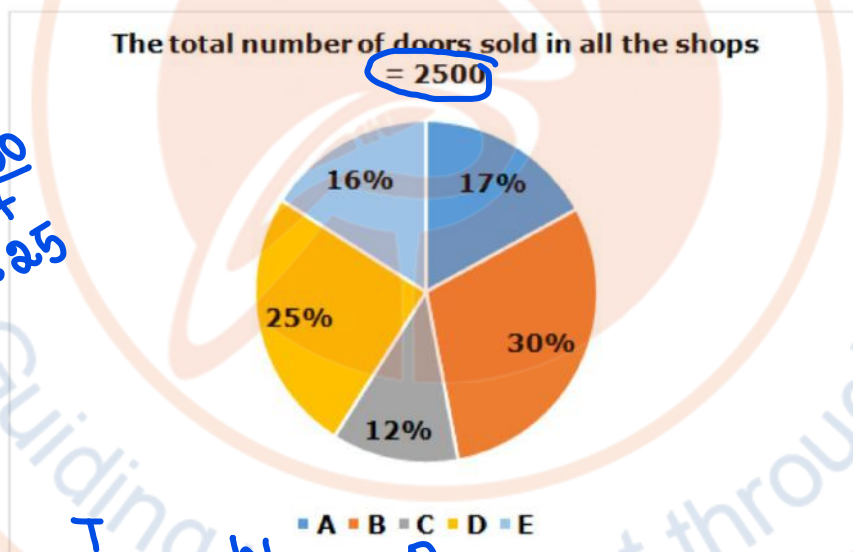
Set 3

Directions:

Study the following information carefully and answer the questions.

The given pie chart shows the percentage distribution of the total number of doors (wooden and plastic) sold in five different shops i.e. A, B, C, D and E.

Note: The number of wooden doors sold in shops A, C, D and E are 250, 200, 375 and 275 respectively.



$$\frac{250 \times 3}{4} = 187.5$$

$$\frac{2500}{4} = 625$$

$$\frac{17}{100} \times 2500 = 425$$

$$\frac{3 \times 25}{100} = 7.5$$

$$\frac{25 \times 6}{100} = 1.5$$

		T	W	P
A	17%	425	250	175
B	30%	750		
C	12%	300	200	100
D	25%	625	375	250
E	16%	400	275	125

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11. Find the difference between the number of wooden doors sold in shop D and the number of plastic doors sold in shop E?

- a) 250
- b) 320
- c) 190
- d) 200
- e) 290

$$\begin{aligned}\text{Diff} &= D_w - E_p \\ &= 375 - 125 \\ &= 250\end{aligned}$$

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12. If the ratio of the total number of doors sold in shop C to shop F is 6:7 and the number of plastic doors sold in shop F is $\frac{9}{5}$ th of the number of plastic doors sold in shop C, then find the number of wooden doors sold in shop F?

- a) 110
- ☒ b) 170
- c) 150
- d) 130
- e) 100

$$C_T : F_T = 6 : 7 \rightarrow 7x = 7 \times 50 = 350$$

$$6x = 300$$

$$x = 50$$

$$F_P = \frac{9}{5} \text{ of } C_P$$

$$= \frac{9}{5} \times 100$$

$$= 180$$

$$F_W = F_T - F_P$$

$$= 350 - 180$$

$$= 170$$

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13. If the number of wooden doors sold in shop B is 500, then find the ratio of the number of plastic doors sold in shop B to the number of plastic doors sold in shop A?

- a) 12 : 11
- b) 18 : 13
- c) 9 : 25
- ☒ d) 10 : 7
- e) 7 : 12

$$B_W = 500$$

$$B_P : A_P$$

$$\cancel{856} : \cancel{175}$$

$$10 : 7$$

$$B_T = 750$$

$$B_W = \frac{500}{2}$$

$$B_P = 250$$

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14. The number of plastic doors sold in shop D is what percentage more than the number of wooden doors sold in shop C?

- a) 15%
- ✓ b) 25%
- c) 40%
- d) 10%
- e) 32%

$$D_p = C_w + \pi\% \text{ of } C_w$$

$$250 = 200 + \frac{\pi}{100} \times 200$$

$$50 = \pi$$

$$\boxed{25\% = \pi}$$

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15. If the average number of wooden, steel and glass doors sold in shop A is 230 and the number of steel doors sold in shop A is 120 more than the number of glass doors sold in the same shop, then find the total number of glass and plastic doors sold in shop A.

a) 215

b) 370

☒ c) 335

d) 275

e) 410

$$\frac{W+S+G}{3} = 230$$

$$S = G + 120$$

$$W+S+G = 690$$

$$230 + G + 120 + G = 690$$

$$2G + 370 = 690$$

$$2G = 320$$

$$G = 160$$

$$P = 175$$

$$160 + 175 = 335$$

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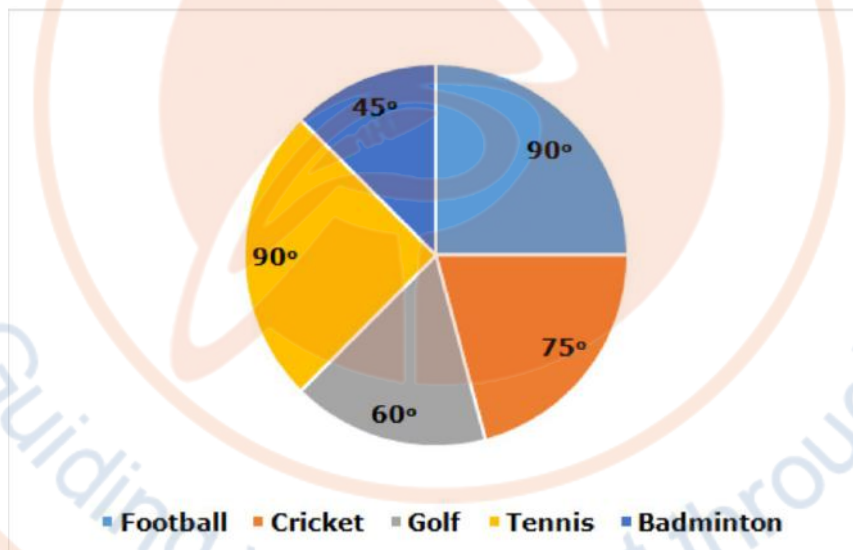
Set 4

Directions:

Study the following information carefully and answer the questions.

The given pie chart shows the degree distribution of the total number of students who participated in five different sports i.e. football, cricket, golf, tennis and badminton in 2020.

Note: The total number of students who participated in all five sports together = 7200



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16. If the ratio of the number of boys to girls who participated in golf is 8:7 and the average number of girls who participated in golf and badminton is 500, then find the number of boys who participated in badminton?

- a) 430
- b) 520
- c) 310
- d) 460
- e) 650

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17. Find the ratio of the total number of students who participated in cricket and badminton together to the total number of students who participated in golf?

- a) 5 : 4
- b) 2 : 1
- c) 7 : 6
- d) 9 : 8
- e) 3 : 2

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18. If the number of girls who participated in tennis is 96% of the number of girls who participated in football and the ratio of the number of boys who participated in football to tennis is 35:36, then find the number of girls who participated in tennis?

- a) 720
- b) 360
- c) 480
- d) 600
- e) 900

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19. The total number of students who participated in football is what percentage more/less than the total number of students who participated in golf?

- a) 20% less
- b) 70% more
- c) 30% less
- d) 50% more
- e) 25% more

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20. If the total number of students who participated in swimming is 20% less than those who participated in cricket and the number of boys who participated in swimming is 160 more than the number of girls, then find the number of girls who participated in swimming?

- a) 280
- b) 440
- c) 520
- d) 360
- e) 640

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Set 5

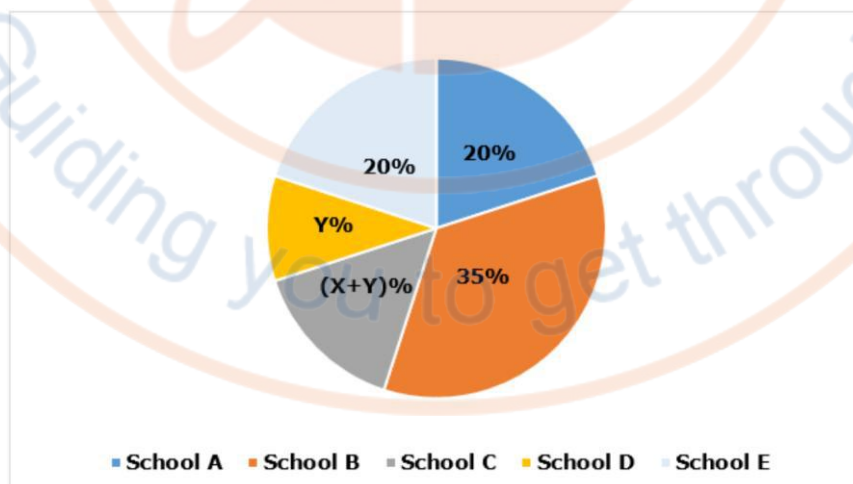
Directions:

Study the following data carefully and answer the questions given below.

The given pie chart shows the percentage distribution of the total number of students (Boys + Girls) in five different schools namely A, B, C, D and E.

Note:

- I). The ratio of the value of the X to Y is 1:2.
- II). The total number of students in school B is 560.
- III). The ratio between the number of boys and girls in each school is 2:3.



21. In school F, the number of boys is $(P/4)\%$ more than the number of girls. The number of girls in school C is $P\%$ more than the number

of girls in school D. Find the ratio between the number of boys and girls in school F.

- a) 3 : 2
- b) 5 : 2
- c) 7 : 6
- d) 9 : 8
- e) 7 : 4

22. The total number of boys in schools B and D together is what percent of the total number of students in school E.

- a) 85%
- b) 70%
- c) 90%
- d) 50%
- e) 10%

23. The average weight of the girls in school B is 20 kg and the average weight of all the students in school B is 18 kg. Find the average weight of the boys in school B.

- a) 15 kg
- b) 16 kg
- c) 17 kg
- d) 19 kg
- e) 14 kg

24. Find the ratio between the average number of boys in schools C and D and the average number of girls in schools D and E.

- a) 3 : 14
- b) 4 : 7
- c) 2 : 11
- d) 7 : 12
- e) 5 : 9

25. In school A, all students participated in at least one of the Olympiad tests: Math and English and the total number of students who participated in the Math Olympiad is 200. If the number of students who participated in both Olympiads in school A is 80, then find the sum of the students who participated only in the Math Olympiad and only in the English Olympiad in school A.

- a) 250
- b) 240
- c) 180
- d) 190
- e) 210

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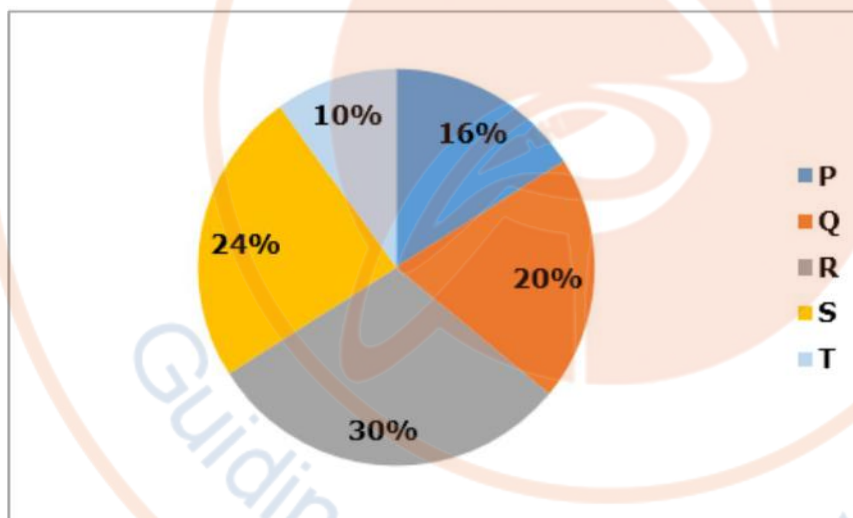
Set 6

Directions:

Study the following information carefully and answer the questions.

The given pie chart shows the percentage distribution of the total number of students who visited five different parks i.e. P, Q, R, S and T.

Note: The total number of students who visited all five parks together = 4500



26. If the number of boys who visited park R is 350 more than that of girls, then find the ratio of the number of girls who visited park R to the total number of students who visited park Q.

- a) 10 : 9
- b) 12 : 7
- c) 9 : 11

- d) 5 : 9
- e) 11 : 5

27. The difference between the total number of students who visited parks P and R is what percentage of the total number of students who visited park T?

- a) 140%
- b) 50%
- c) 80%
- d) 100%
- e) 110%

28. Find the ratio of the total number of students who visited park Q to the average number of students who visited parks P and S?

- a) 8 : 7
- b) 1 : 1
- c) 5 : 6
- d) 3 : 4
- e) 6 : 5

29. If the number of boys who visited park Q is 170 more than that of park T and the number of boys who visited park Q is 140 more than that of girls, then find the number of girls who visited park T?

- a) 130
- b) 310

- c) 150
- d) 220
- e) 100

30. If the total number of students who visited park L is 75% of the total number of students who visited park P and the average number of boys who visited parks L and P is 330, then find the total number of girls who visited parks L and P together?

- a) 530
- b) 420
- c) 370
- d) 600
- e) 580