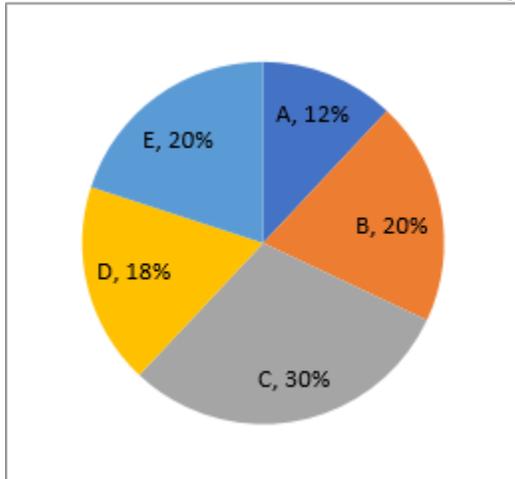


Quiz Date: 17th July 2020

Directions (1-5): **Study the following pie chart and answer the questions based on it.**

Given below is the pie chart which shows the percentage of female voters in 5 different villages out of total females in 5 villages.

Total female voters in these five villages is 12000.



Q1. What is the sum of male voters from village A and B together if total voters (Male + Female) in these two villages is 7600?

- (a) 3760
- (b) 3840
- (c) 3950
- (d) 3560
- (e) 4020

Q2. What is the ratio of total female voters from village C & D together to the total female voters from village B and E together

- (a) 5 : 4
- (b) 4 : 3
- (c) 6 : 5
- (d) 3 : 2
- (e) 2 : 1

Q3. Average of female voters from village B and C together are what percent of female voters for village D.

- (a) $145\frac{3}{5}\%$
- (b) $138\frac{4}{9}\%$
- (c) $138\frac{8}{9}\%$

(d) $145\frac{5}{7}\%$

(e) $138\frac{2}{3}\%$

Q4. Total female voters from village A and C together are what percent of female voters village D and E together.

(a) $2200/7\%$

(b) $2200/9\%$

(c) $2100/19\%$

(d) $2100/11\%$

(e) $1900/9\%$

Q5. If ratio of male to female voters from village C is 6 : 5 and from village D is 4 : 3 then males from village C are what percent of males from village D.

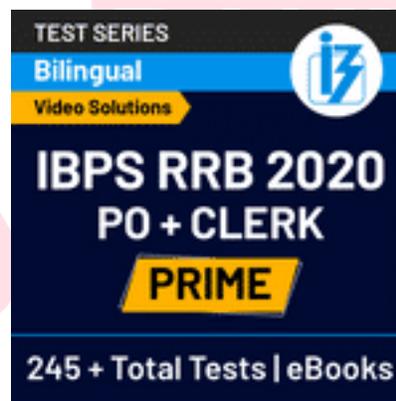
(a) 75%

(b) 125%

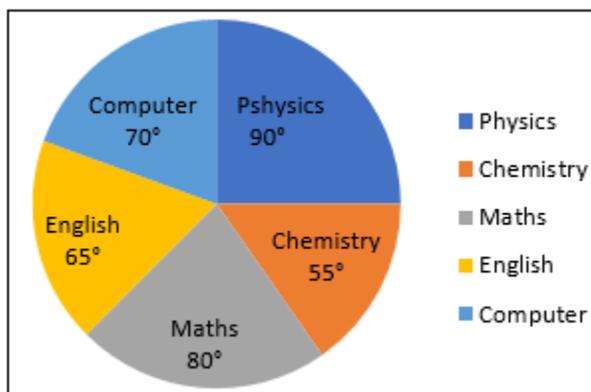
(c) 100%

(d) 80%

(e) 150%



Directions (6-10): The following pie chart gives the marks obtained by Vicky in an examination in five subjects. The total marks obtained is 450. Answer the questions based upon the chart.



Q6. What will be the percentage distribution of physics in the following pie chart?

- (a) 20%
- (b) 25%
- (c) 30%
- (d) 35%
- (e) None of these

Q7. Vicky Scored 100 marks in Which of the following subjects?

- (a) Math
- (b) Chemistry
- (c) Physics
- (d) Computer
- (e) None of these

Q8. The marks scored by Vicky in Computer and Physics together exceed the marks scored in Chemistry and English together by:

- (a) 30
- (b) 40
- (c) 50
- (d) 60
- (e) 45

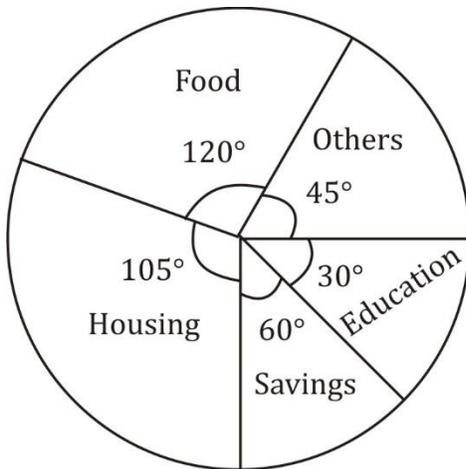
Q9. The average marks obtained by Vicky in the five subjects is:

- (a) 82
- (b) 90
- (c) 95
- (d) 76
- (e) None of these

Q10. The subject in which Vicky scored approximately $22\frac{2}{9}\%$ marks is:

- (a) Chemistry
- (b) Computer
- (c) Math
- (d) English
- (e) None of these

Directions (11-15): The pie-chart given here shows expenditures incurred by a family on various items (in degrees) and their savings, which amount to Rs. 8000 in month.



Q11. How much expenditure is incurred on education?

- (a) Rs. 3000
- (b) Rs. 5000
- (c) Rs. 4000
- (d) Rs. 7000
- (e) Rs. 7500

Q12. The ratio of the expenditure on food to the savings is

- (a) 3 : 2
- (b) 2 : 1
- (c) 4 : 3
- (d) 3 : 4
- (e) 2 : 3

Q13. What is the total expenditure of the family for the month?

- (a) Rs. 40000
- (b) Rs. 48000
- (c) Rs. 45000
- (d) Rs. 50000
- (e) Rs. 55000

Q14. How much more amount is spent on food than on housing?

- (a) Rs. 1000
- (b) Rs. 3000
- (c) Rs. 2000
- (d) Rs. 2500
- (e) Rs. 3400

Q15. What is the average expenditure on Food, Housing and Others together?

- (a) 12500
- (b) 14000
- (c) 10000

- (d) 12000
(e) 11500

Solutions

S1. Ans.(a)

Total female voters from village A & B

$$= (12\% + 20\%) 1200$$

$$= 32 \times 120$$

$$= 3840$$

Total male voters = 7600 - 3840

Sol. $= 3760$

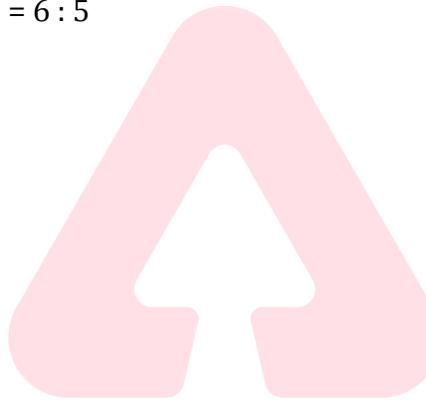
S2. Ans.(c)

Sol.

Required ratio = $(30\% + 18\%) : (20\% + 20\%)$

$$= 48 : 40$$

$$= 6 : 5$$



S3. Ans.(c)

Required percentage

$$= \frac{\frac{1}{2}(20\% + 30\%)12000}{18\% \times 12000} \times 100$$

$$= \frac{25}{18} \times 100$$

$$= \frac{1250}{9}$$

$$= 138 \frac{8}{9}\%$$

Sol.

S4. Ans.(c)

$$\begin{aligned} & \text{Required percentage} \\ &= \frac{(12\%+30\%)12000}{(18\%+20\%)12000} \times 100 \\ &= \frac{42}{38} \times 100 \\ &= \frac{2100}{19} \% \end{aligned}$$

Sol.

S5. Ans.(e)

$$\begin{aligned} \text{Males from village C} &= \frac{30}{100} \times 12000 \times \frac{6}{5} \\ \text{Males from village D} &= \frac{18}{100} \times 12000 \times \frac{4}{3} \\ \text{Required percentage} &= \frac{30 \times \frac{6}{5}}{18 \times \frac{4}{3}} \times 100 \end{aligned}$$

Sol. = 150%

S6. Ans.(b)

$$\text{Required percent} = \frac{90}{360} \times 100 = 25\%$$

Sol.

S7. Ans.(a)

$$\begin{aligned} 100 \text{ marks is equivalent to } & \frac{100}{450} \times 360 = 80^\circ \\ \therefore 80^\circ \text{ is central angle for Math.} \end{aligned}$$

Sol.

S8. Ans.(c)

$$\begin{aligned} \text{Difference in central angle} &= 160 - 120 = 40^\circ \\ \therefore \text{Required marks} &= \frac{40}{360} \times 450 = 50 \text{ marks} \end{aligned}$$

Sol.

S9. Ans.(b)

$$\text{Required aggregate marks} = \frac{450}{5} = 90 \text{ marks.}$$

Sol.

S10. Ans.(c)

$$\text{Central angle for } 22.2\% = \frac{22.2}{100} \times 360 \approx 80^\circ$$

Sol. 80° resemble Maths.

S11. Ans.(c)

Total saving = Rs. 8000

i.e., $60^\circ = \text{Rs. } 8000$

So, education

$$= 30^\circ = \frac{8000}{2} = \text{Rs. } 4000$$

Sol.

S12. Ans.(b)

Expenditure on food = 120°

And saving = 60°

So, the ratio = 2 : 1

Sol.

S13. Ans.(a)

Family's total saving = 60°

And total expenditure = 300°

So, the value of 300°

$$\text{Sol. } = 8000 \times 5 = \text{Rs. } 40000$$

S14. Ans.(c)

Expenditure on food = 120°

Expenditure on housing = 105°

Difference = 15°

Saving = $60^\circ = \text{Rs. } 8000$

$$\text{Sol. } \text{So, } 15^\circ = \frac{8000}{4} = \text{Rs. } 2000$$

S15. Ans.(d)

Average expenditure on given items

$$= \frac{1}{3} \times \frac{270}{360} \times \frac{360}{60} \times 8000$$

$$= 12000$$

Sol.

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