



MATHS

BOOKS - ARIHANT SSC MATHS (HINGLISH)

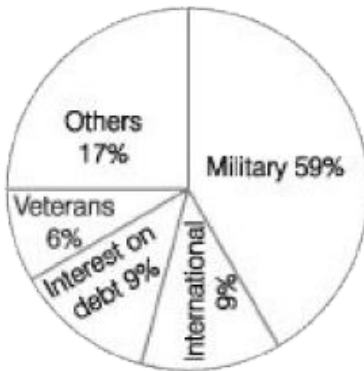
PIE CHART

Example

1. In year 2012,if India had a total expenditure of 120billion, then howmany billions did it

spend on interest on debt?

National budget expenditure in the year 2012
(Percentage distribution)

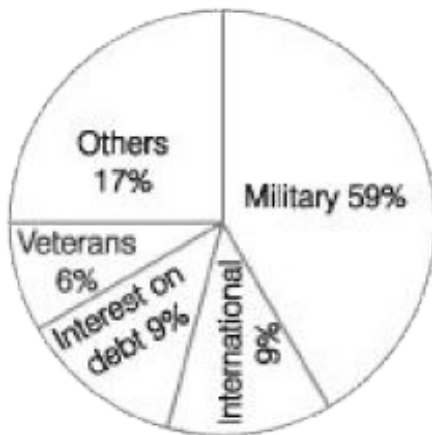


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2. If 9 billion were spent in year 2012 for veterans, then what would have been the total

expenditure for that year (in billions)?

National budget expenditure in the year 2012
(Percentage distribution)

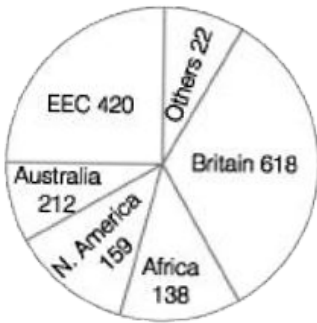


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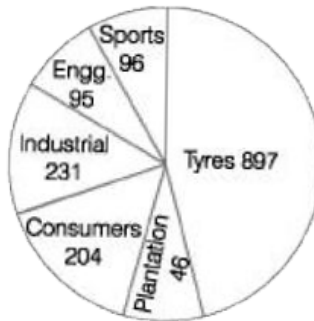
3. If in the next year, the sales of sports goods were expected to double assuming that the total sales do not change, what would be the

percentage share of sports goods in the total sales?

Sales by location of company
(In million pounds)



Sales by product
(In million pounds)



Total sales = 1569 million pounds

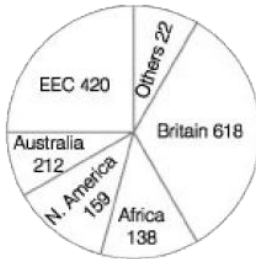


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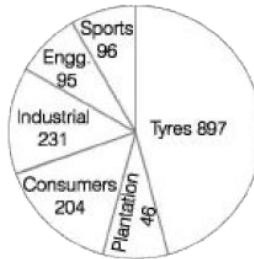
4. If 20% of the tyre sales were in the EEC countries, then what was the value of sales of other products in the EEC countries in million

of pounds?

Sales by location of company
(In million pounds)



Sales by product
(In million pounds)



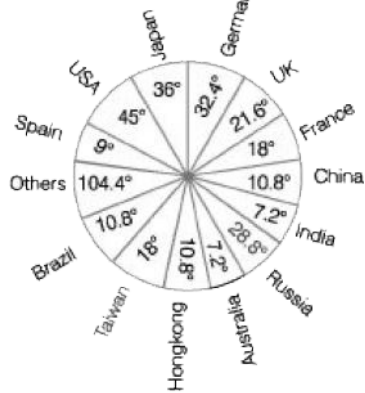
Total sales = 1569 million pounds



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5. By how much does the value of the exports of USA exceed that of Germany?

Countrywise global exports presentation



Total = 72000 billion

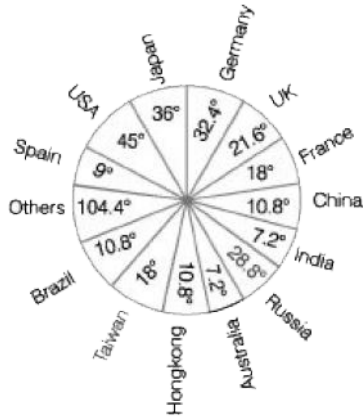


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6. The difference in the values of the exports of Japan and France is how many times that of UK and Taiwan? Sol. The difference in the

angles of the export of Japan and Prance

Countrywise global exports presentation



Total = 72000 billion

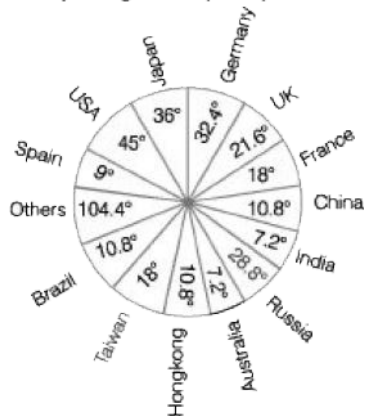


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7. The value of the exports of the OPEC countries is how much more than the value of the exports of India and Australia put together, given that OPEC has a 20% share in

the value of the exports of others?

Countrywise global exports presentation



Total = 72000 billion

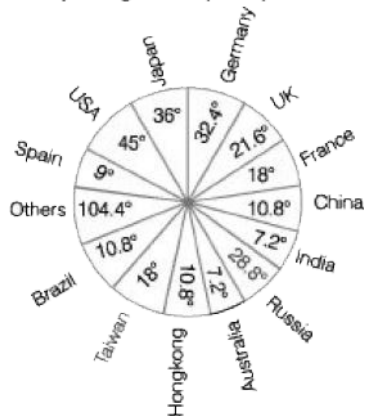


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8. If exports of developing countries accounted for 36% of the total worldwide exports, then what is the value of the exports of Japan as a percentage of the exports of the

developing countries?

Countrywise global exports presentation



Total = 72000 billion

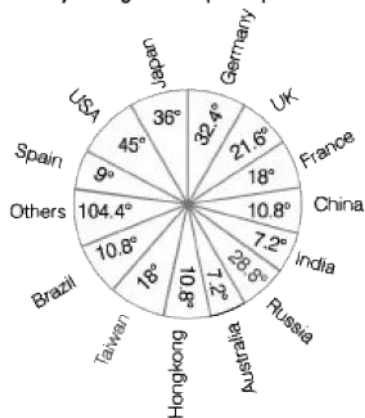


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9. Considering 'others' as a single country, what is the number of countries whose exports are more than the average exports per

country?

Countrywise global exports presentation



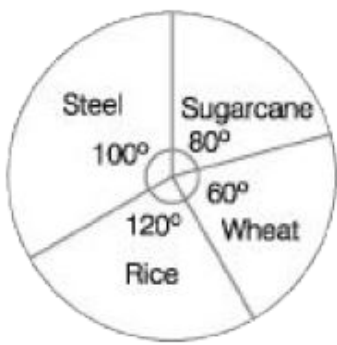
Total = 72000 billion



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Exercise Base Level Questions

1. The yield of rice is how much per cent more than that of sugarcane?



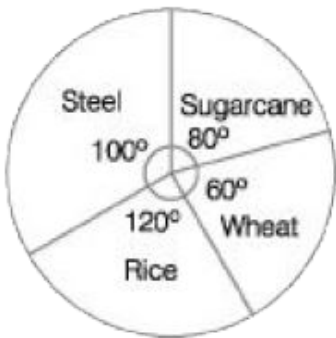
- A. 0.4
- B. 0.5
- C. 0.6
- D. 0.75

Answer:



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2. If the yield of rice and wheat is 9000 tonnes, then the yield of excess product of others in composition with sugarcane is



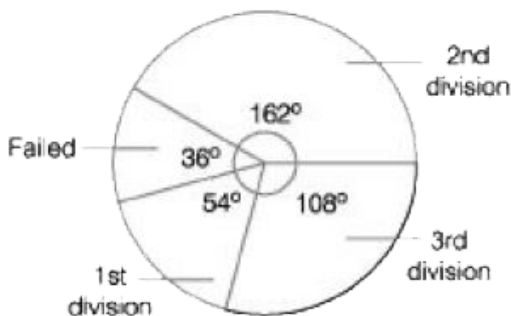
- A. 1000 tonnes
- B.) 2000 tonnes
- C. 3000 tonnes
- D. 4000 tonnes

Answer: A



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3. The following pie chart shows the performance in an examination in a particular year for 360 students. The number of students who passed in 1st division is



A. 45

B. 54

C. 64

D. 74

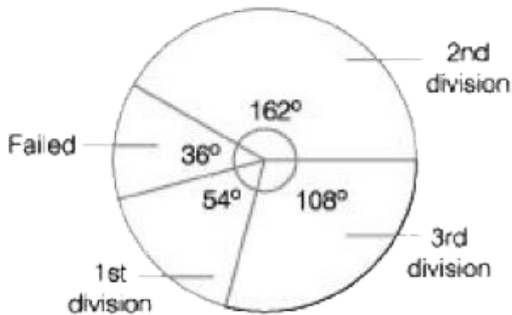
Answer: D



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4. The following pie chart shows the performance in an examination in a particular year for 360 students. The number of students

who passed in 2nd division is more than those in 1st division by



A. 111

B. 112

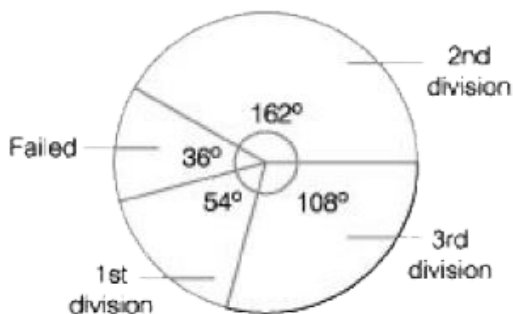
C. 109

D. 108

Answer: A::B



5. The ratio of successful students to the failed students is



A. 9 : 1

B. 5 : 1

C. 1 : 9

D. 2: 1

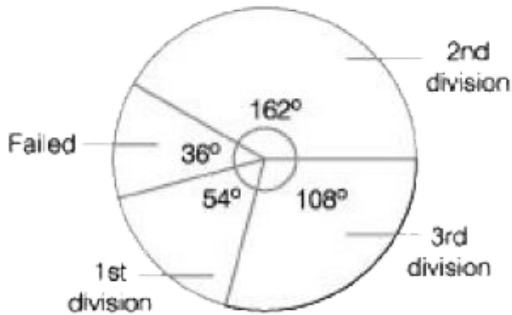
Answer: A



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6. The following pie chart shows the performance in an examination in a particular year for 360 students. The percentage of

students who have failed in the examination is



A. 0.2

B. 0.36

C. 0.1

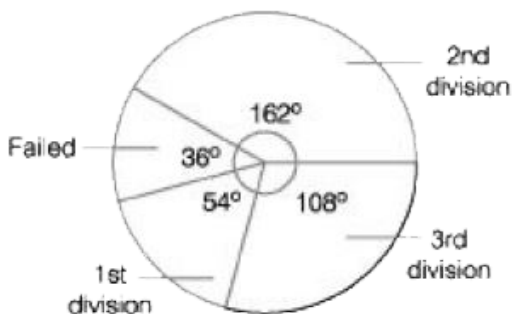
D. 0.3

Answer: A



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7. The following pie chart shows the performance in an examination in a particular year for 360 students. The total number of students who have passed in 2nd and 3rd division is



A. 162

B. 270

C. 108

D. None of these

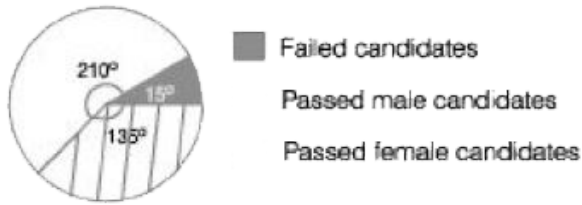
Answer: B



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8. the following examination shows the analysis of the result of an examination in which 5 candidates have failed. The total

number of examinees was



A. 100

B. 120

C. 135

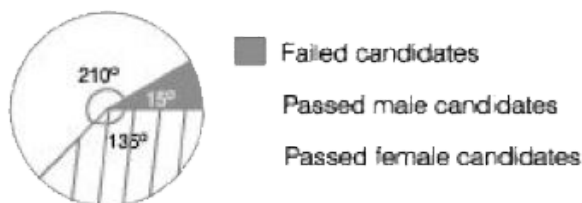
D. 150

Answer: A::B



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9. The following examination shows the analysis of the result of an examination in which 5 candidates have failed. The number of passed male examinees is



A. 80

B. 75

C. 70

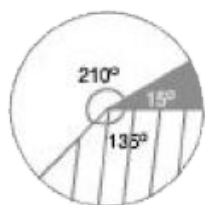
D. 60

Answer:



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10. The following examination shows the analysis of the result of an examination in which 5 candidates have failed. Percentage of passed female candidates with respect to total examinees is



Failed candidates

Passed male candidates

Passed female candidates

A. 0.3

B. 0.375

C. 0.4

D. 0.45

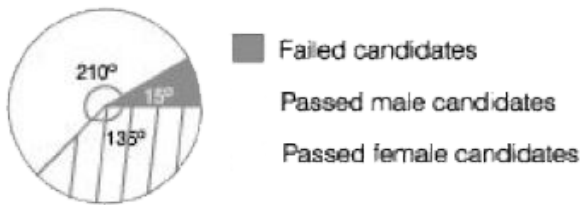
Answer: C



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11. The following examination shows the analysis of the result of an examination in which 5 candidates have failed . Percentage of

passed male candidates of total passed candidates is



A. 0.608

B. 0.56

C. 0.71

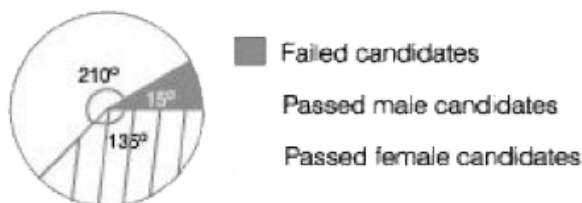
D. 0.58

Answer: A



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12. The following examination shows the analysis of the result of an examination in which 5 candidates have failed. Ratio of passed male candidates to the successful female candidates is



A. 9: 1

B. 1: 14

C. 14: 9

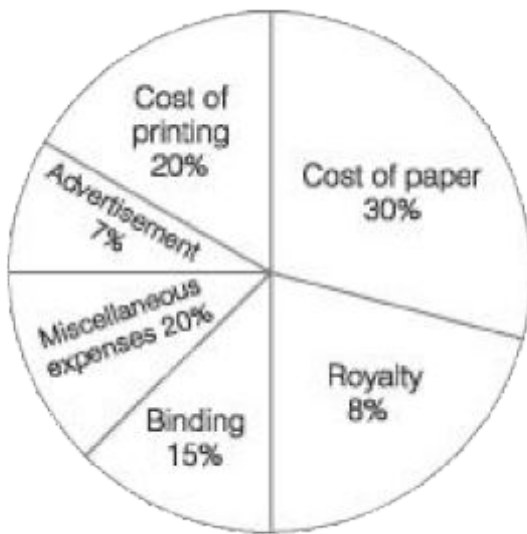
D. 9: 14

Answer: A::D



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13. If the cost of paper is rs 150000, then the expense on advertisement is



A. X 35000

B. X 3500

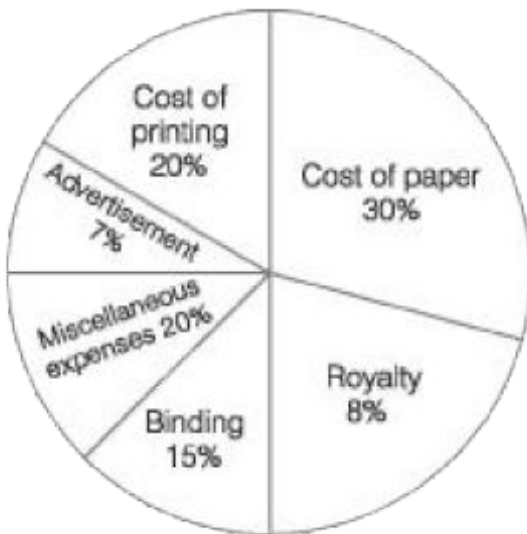
C. ? 40000

D. ? 25000

Answer: C



14. The central angle corresponding to the cost of printing is



A. 60°

B. 72°

C. 45°

D. none of the above

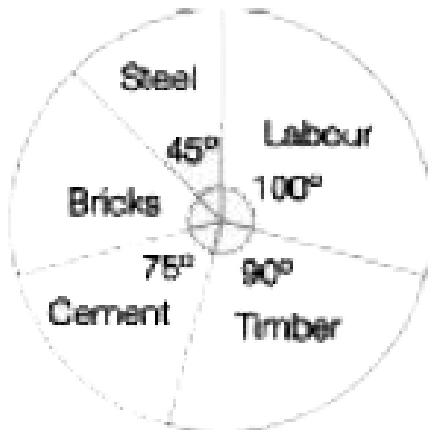
Answer: B



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15. The following pie chart represents a total expenditure of 540000 on different items in constructing a flat in a town. The expenditure

(in ?) on bricks is



- A. 75000
- B. 67500
- C. 150000
- D. 70000

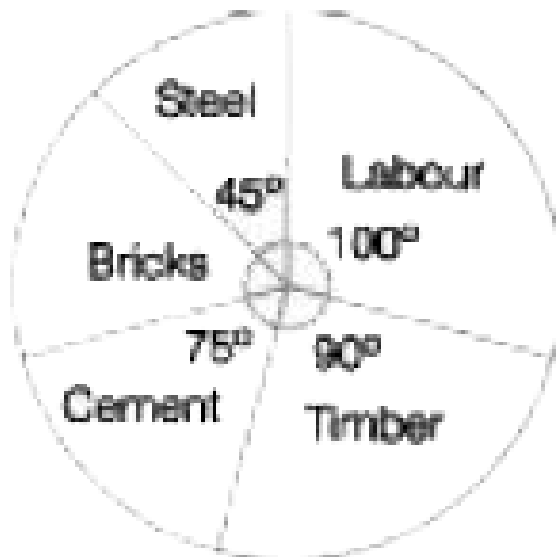
Answer:



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16. The following pie chart represents a total expenditure of 540000 on different items in constructing a flat in a town. The expenditure on bricks is less than the expenditure on

timber (in ?)



- A. 10000
- B. 12500
- C. 60000
- D. 65000

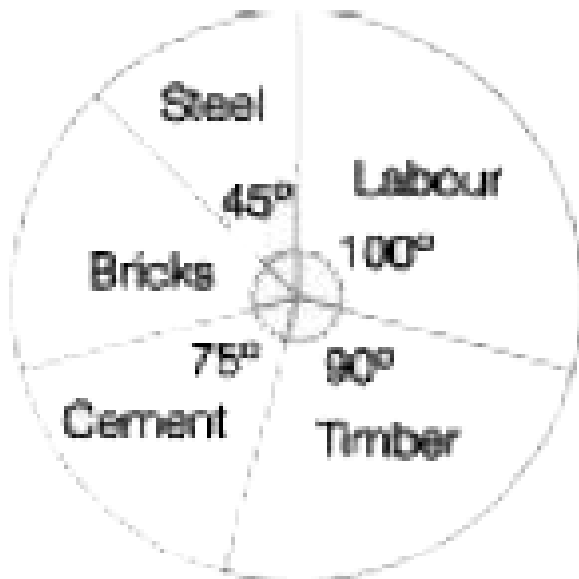
Answer:



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17. The following pie chart represents a total expenditure of 540000 on different items in constructing a flat in a town. The percentage of the total expenditure spent on steel and

cement is



A. 0.3323

B. 0.25

C. $33\frac{1}{3}\%$

D. 30%

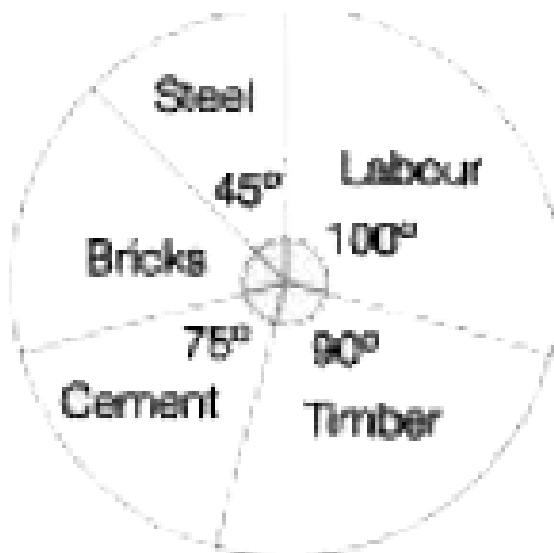
Answer: A::C



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18. The following pie chart represents a total expenditure of 540000 on different items in constructing a flat in a town. Which is the item

of maximum expenditure?



A. Cement

B. Steel

C. Timber

D. Labour

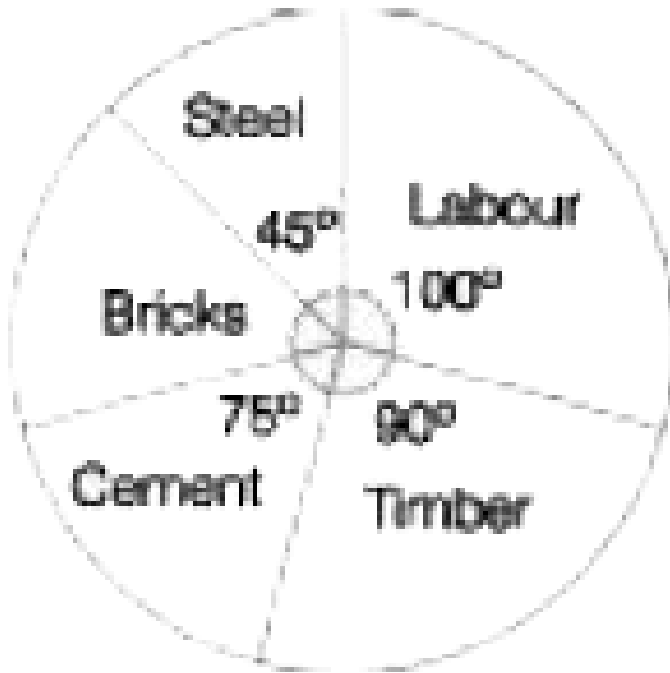
Answer:



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19. The following pie chart represents a total expenditure of 540000 on different items in constructing a flat in a town. The expenditure

(inT)on cement is



- A. 75000
- B. 90000
- C. 135000
- D. 112500

Answer: A::B

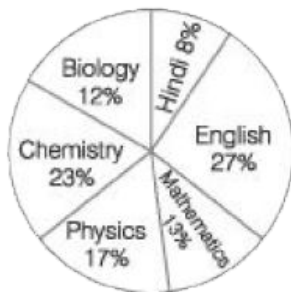


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20. If two-ninth of the teachers who teach Physics, are female, then number of male Physics teachers is approximately what per cent of the total number of teachers who

teach Chemistry?

Percentage-wise distribution of teachers who teach six different subjects



Total number of teachers = 1800

A. 0.57

B. 0.42

C. 0.63

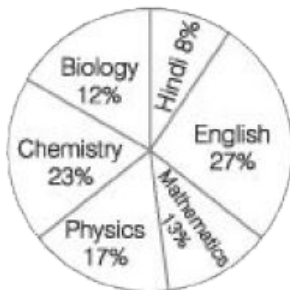
D. 0.69

Answer: B::C



21. What is the total number of teachers teaching Chemistry, English and Biology ?

Percentagewise distribution of teachers who teach six different subjects



Total number of teachers = 1800

A. 1226

B. 1116

C. 1176

D. 998

Answer: A

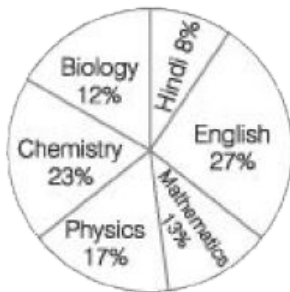


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22. What is the difference between the total number of teachers who teach English and Physics together and the total number of teachers who teach Mathematics and Biology

together?

Percentage-wise distribution of teachers
who teach six different subjects



Total number of teachers = 1800

A. 352

B. 342

C. 643

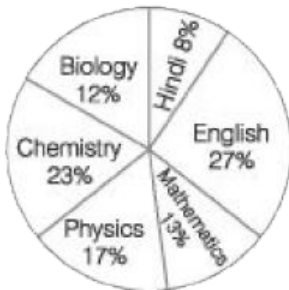
D. 653

Answer: B::C::D



23. What is the respective ratio of the number of teachers who teach Mathematics and the number of teachers who teach Hindi? ?

Percentage-wise distribution of teachers who teach six different subjects



Total number of teachers = 1800

A. 13: 8

B. 7: 13

C. 9: 26

D. 8: 15

Answer: A::C

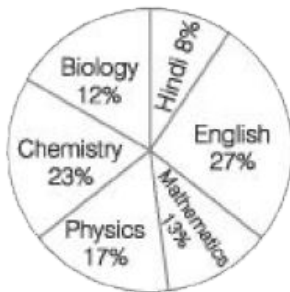


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24. If the percentage of Mathematics teachers is increased by 50% and percentage of Hindi teachers is decreased by 25%, then what will be the total number of Mathematics

and Hindi teachers together?

Percentage-wise distribution of teachers
who teach six different subjects



Total number of teachers = 1800

A. 390

B. 379

C. 459

D. 480

Answer: D



25. What is total sum of expenditures on research work, purchase of overhead projectors for Ph.D classes and purchase of books for library together?

Expenditure on different sectors by university for various purposes



Total expenditure = ₹ 60 lakh

A. X 22.6 lakh

B. X 22.8 lakh

C. X 23.4 lakh

D. X 20.8 lakh

Answer: A::B



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26. What is the difference between the expenditures made by university on publication of journals and psychology

laboratory?

Expenditure on different sectors by university for various purposes



Total expenditure = ₹ 60 lakh

A. X 4 lakh

B. X 3 lakh

C. X 4.2 lakh

D. X 3.8 lakh

Answer: A::C



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27. What is the respective ratio between the expenditures made by university on research

work and purchase of books for library?

Expenditure on different sectors by university for various purposes



Total expenditure = ₹ 60 lakh

A. 4 : 3

B. 5 : 4

C. 8 : 3

D. 8 : 5

Answer: C::D



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28. If the expenditure on purchase of overhead projectors for Ph.D. students is decreased by 7%, then what will be the expenditure on the

same after the decrease?

Expenditure on different sectors by university for various purposes



Total expenditure = ₹ 60 lakh

A. X 133920

B. X 1339200

C. X 1020000

D. X 108000

Answer: A::B



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29. Which of the following is definitely true?

Expenditure on different sectors by university for various purposes



Total expenditure = ₹ 60 lakh

A. Ratio between expenditure of university on purchase of library books and expenditure on computer laboratory is 3 : 1 respectively

B. Expenditure on medical facilities for students is X 4.6 lakh

C. Difference between the expenditure on research and medical facilities for students is X 60000

D. All are true

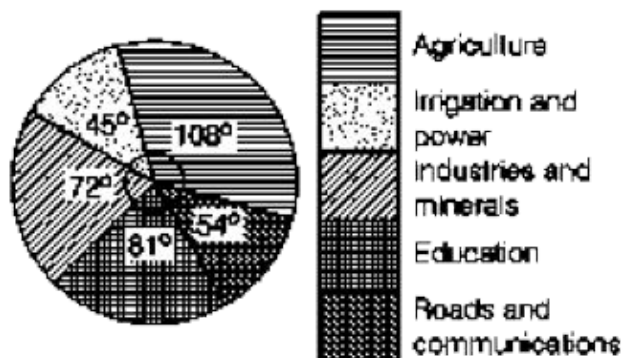
Answer:



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30. The adjoining pie chart represents the proposed outlay of the fifth year plan of 40000 crore .The amount proposed on agriculture is more than that on industries

and minerals by



A. 0.075

B. 0.1

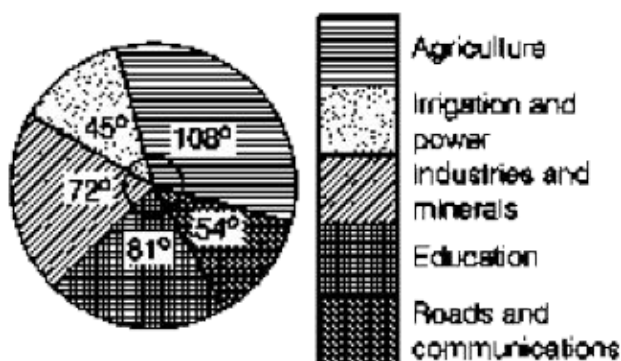
C. 0.12

D. 0.125

Answer: A



31. The adjoining pie chart represents the proposed outlay of the fifth year plan of 40000 crore . The amount (in X crore) proposed on irrigation and power is less than that on industries and minerals by



A. 3000

B. 3500

C. 2000

D. 2500

Answer: C



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Exercise Higher Skill Level Questions

1. What is the respective ratio of the men to the women working in night shifts from the call center in- dustry?

Percentage of people in a city working in night shifts from various industries
(Total number of people = 40250)



Percentage of females from various industries working in night shifts

Industries	Females
IT	20%
Gaming	20%
Call center	45%
Sales	60%
Banking	40%
Chemical industries	15%

A. 11: 9

B. 7: 5

C. 8: 13

D. 11: 7

Answer: A



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2. What is the approximate average number of females working in night shifts from all the

industries to- gether?

Percentage of people in a city working in night shifts from various industries
(Total number of people = 40250)



Percentage of females from various industries working in night shifts

Industries	Females
IT	20%
Gaming	20%
Call center	45%
Sales	60%
Banking	40%
Chemical industries	15%

A. 2227

B. 4481

C. 3326

D. 2823

Answer: B



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3. What is the total number of men working in night shifts from all the industries together?

**Percentage of people in a city working in night shifts from various industries
(Total number of people = 40250)**



Percentage of females from various industries working in night shifts

Industries	Females
IT	20%
Gaming	20%
Call center	45%
Sales	60%
Banking	40%
Chemical industries	15%

A. 28297

B. 25788

C. 28678

D. 26887

Answer: B



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4. The number of women working in night shifts from the gaming industry is what per cent of the total number of people working in the night shifts from all the industries

together?

Percentage of people in a city working in night shifts from various industries
(Total number of people = 40250)



Percentage of females from various industries working in night shifts

Industries	Females
IT	20%
Gaming	20%
Call center	45%
Sales	60%
Banking	40%
Chemical industries	15%

A. 0.056

B. 0.036

C. 0.032

D. 0.044

Answer: C



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5. What is the difference between the total number of men and the total number of women working in night shifts from all the

industries together?

Percentage of people in a city working in night shifts from various industries
(Total number of people = 40250)



Percentage of females from various industries working in night shifts

Industries	Females
IT	20%
Gaming	20%
Call center	45%
Sales	60%
Banking	40%
Chemical industries	15%

A. 13254

B. 13542

C. 13524

D. 13363

Answer: A::B::C::D

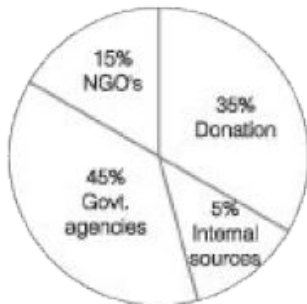


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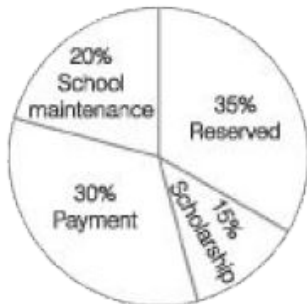
6. What is the difference between the funds acquired by school from NGO's and internal

sources?

The entire fund that school gets from different sources is equal to ₹ 500 lakh



Sources of funds in school



Uses of funds by school

A. X 50 lakh

B. X45 lakh

C. ? 75 lakh

D. ? 25 lakh

Answer: A

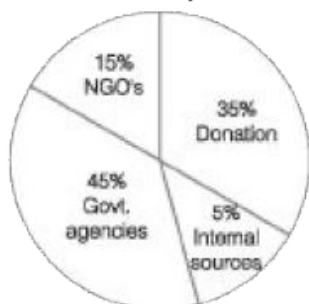


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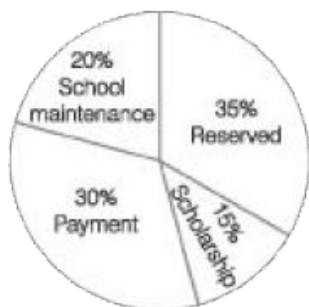
7. If the school managed school maintenance from the government agencies fund only, how much fund from government agencies would

still left for other use?

The entire fund that school gets from different sources is equal to ₹ 500 lakh



Sources of funds in school



Uses of funds by school

A. ₹ 125 lakh

B. ₹ 150 lakh

C. ₹ 110 lakh

D. ? 95 lakh

Answer: A::B

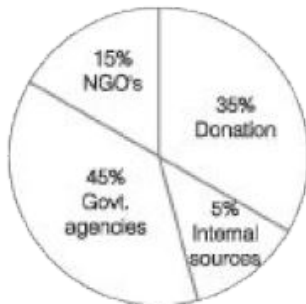


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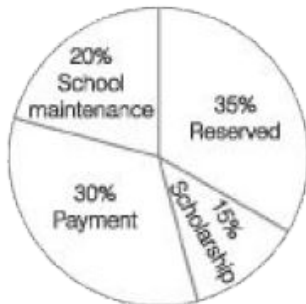
8. If scholarship has to be paid out of the donation fund, then what is the approximate percent of donation fund used for this

purpose?

The entire fund that school gets from different sources is equal to ₹ 500 lakh



Sources of funds in school



Uses of funds by school

A. 0.43

B. 0.53

C. 0.37

D. 0.45

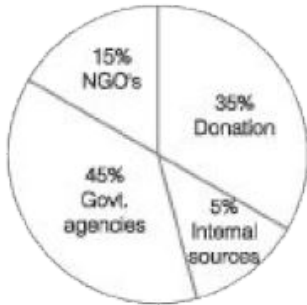
Answer: A::C::D



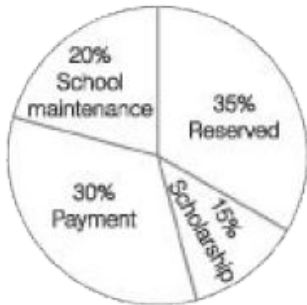
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9. What is the total amount used by the school for payment?

The entire fund that school gets from different sources is equal to ₹ 500 lakh



Sources of funds in school



Uses of funds by school

A. ? 100 lakh

B. 7 110 lakh

C. 7 150 lakh

D. 7 140 lakh

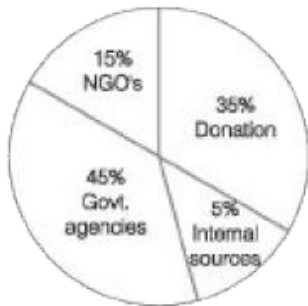
Answer: A



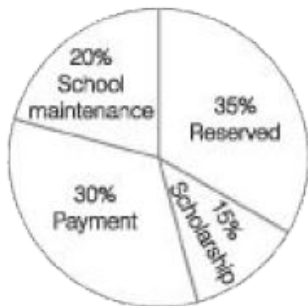
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10. What amount of the fund is acquired by the school from government agencies?

The entire fund that school gets from different sources is equal to ₹ 500 lakh



Sources of funds in school



Uses of funds by school

A. ? 220 lakh

B. 7 310 lakh

C. 7 255 lakh

D. 7 225 lakh

Answer: A::B



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11. The number of employees who got promoted from the HR department was what percent of the total number of employees working in that department? (Rounded off to two digits after decimal.

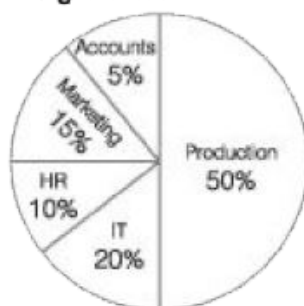
**Break-up of employees working in
different departments**

Total number of employees = 3600



**Break-up of number of males
working in each department**

**Total number of males in the
organisation = 2040**



**Break-up of number of employees
who recently got promoted
in each department**



**Total number of employees who got
promoted = 1200**

A. 0.3618

B. 0.3056

C. 0.4722

D. 0.2816

Answer: C



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12. The total number of employees who got promoted from all the departments together was what percent of the total number of employees working in all the departments together? (Rounded off the nearest integer.)

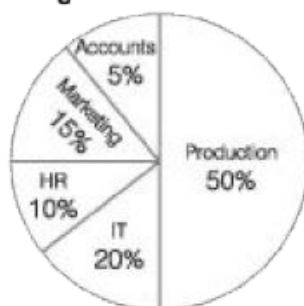
**Break-up of employees working in
different departments**

Total number of employees = 3600



**Break-up of number of males
working in each department**

**Total number of males in the
organisation = 2040**



**Break-up of number of employees
who recently got promoted
in each department**



**Total number of employees who got
promoted = 1200**

A. 0.56

B. 0.21

C. 0.45

D. 0.33

Answer: D



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13. What is the total number of females working in the production and marketing departments together?

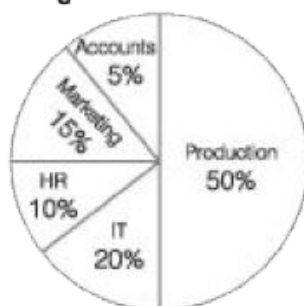
**Break-up of employees working in
different departments**

Total number of employees = 3600



**Break-up of number of males
working in each department**

**Total number of males in the
organisation = 2040**



**Break-up of number of employees
who recently got promoted
in each department**



**Total number of employees who got
promoted = 1200**

A. 468

B. 812

C. 582

D. 972

Answer: B



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14. If half of the number of employees who promoted from the IT department were males, then what was the approximate percentage of males who got promoted from the number of working males in IT department?

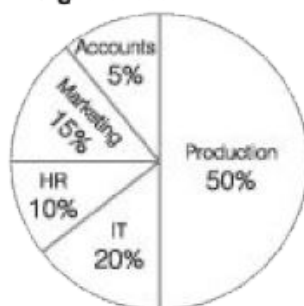
**Break-up of employees working in
different departments**

Total number of employees = 3600



**Break-up of number of males
working in each department**

**Total number of males in the
organisation = 2040**



**Break-up of number of employees
who recently got promoted
in each department**



**Total number of employees who got
promoted = 1200**

- A. 0.61
- B. 0.29
- C. 0.38
- D. 0.42

Answer: C



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15. How many females work in the accounts department?

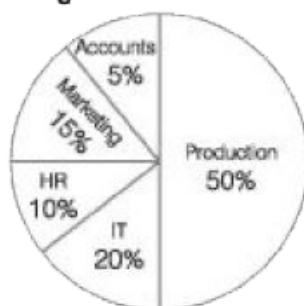
**Break-up of employees working in
different departments**

Total number of employees = 3600



**Break-up of number of males
working in each department**

**Total number of males in the
organisation = 2040**



**Break-up of number of employees
who recently got promoted
in each department**



**Total number of employees who got
promoted = 1200**

A. 618

B. 592

C. 566

D. 624

Answer: A



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