Q1) DIRECTIONS: Refer to the data below and answer the questions that follow.

In a survey among students in the college, it was found that out of the male population 34% preferred Chemistry, 30% liked Maths and 58% Physics. Of the total Male students, 15% liked Chemistry and Maths, 22% liked Physics and Maths and 32% liked Physics and Chemistry. Only 33% of the male students did not like any of these subjects. It was also found that out of the female population 56% preferred Chemistry, 45% liked Maths and 64% likes Physics. Out of the total female students, 31% liked Chemistry and Maths, 25% liked Physics and Maths and 33% liked Physics and Chemistry. Only 5% of the female students did not like any of these subjects. The total number of male students in the college is 3000 and the total number of students in the college is 5000.

The ratio of the number of male students who like only Chemistry to the number of female students who like only Maths is

A) 1:14

B) 1:8

C) 3:16

D) 3:1

Ans: A

Q2) DIRECTIONS: Refer to the data below and answer the questions that follow.

In a survey among students in the college, it was found that out of the male population 34% preferred Chemistry, 30% liked Maths and 58% Physics. Of the total Male students, 15% liked Chemistry and Maths, 22% liked Physics and Maths and 32% liked Physics and Chemistry. Only 33% of the male students did not like any of these subjects. It was also found that out of the female population 56% preferred Chemistry, 45% liked Maths and 64% likes Physics. Out of the total female students, 31% liked Chemistry and Maths, 25% liked Physics and Maths and 33% liked Physics and Chemistry. Only 5% of the female students did not like any of these subjects. The total number of male students in the college is 3000 and the total number of students in the college is 5000.

The percentage of those males who like Chemistry or Maths but not Physics among those males who like at least one of these is

A) More than 15%

B) Less than 12%

C) More than 12% but less than 15%

D) Cannot be determined

Ans: A

Q3) DIRECTIONS: Refer to the data below and answer the questions that follow.

In a survey among students in the college, it was found that out of the male population 34% preferred Chemistry, 30% liked Maths and 58% Physics. Of the total Male students, 15% liked Chemistry and Maths, 22% liked Physics and Maths and 32% liked Physics and Chemistry. Only 33% of the male students did not like any of these subjects. It was also found that out of the female population 56% preferred Chemistry, 45% liked Maths and 64% likes Physics. Out of the total female students, 31% liked Chemistry and Maths, 25% liked Physics and Maths and 33% liked Physics and Chemistry. Only 5% of the female students did not like any of these subjects. The total number of male students in the college is 3000 and the total number of students in the college is 5000.

Find the ratio between the number of female students who like Chemistry and Physics only and the number of male students who like Maths only.

A) 4:3

B) 2:1

C) 7:8

D) 18:1

Ans: A

Q4) DIRECTIONS: Refer to the data below and answer the questions that follow.

In a survey among students in the college, it was found that out of the male population 34% preferred Chemistry, 30% liked Maths and 58% Physics. Of the total Male students, 15% liked Chemistry and Maths, 22% liked Physics and Maths and 32% liked Physics and Chemistry. Only 33% of the male students did not like any of these subjects. It was also found that out of the female population 56% preferred Chemistry, 45% liked Maths and 64% likes Physics. Out of the total female students, 31% liked Chemistry and Maths, 25% liked Physics and Maths and 33% liked Physics and Chemistry. Only 5% of the female students did not like any of these subjects. The total number of male students in the college is 3000 and the total number of students in the college is 5000.

What is the difference between the number of female students of those who like only Maths and Physics but not Chemistry and the number of male students who like Chemistry only?

A) 150

B) 90

C) 70

D) 180

Ans: B

Q5) DIRECTIONS: Refer to the data below and answer the questions that follow.

In a survey among students in the college, it was found that out of the male population 34% preferred Chemistry, 30% liked Maths and 58% Physics. Of the total Male students, 15% liked Chemistry and Maths, 22% liked Physics and Maths and 32% liked Physics and Chemistry. Only 33% of the male students did not like any of these subjects. It was also found that out of the female population 56% preferred Chemistry, 45% liked Maths and 64% likes Physics. Out of the total female students, 31% liked Chemistry and Maths, 25% liked Physics and Maths and 33% liked Physics and Chemistry. Only 5% of the female students did not like any of these subjects. The total number of male students in the college is 3000 and the total number of students in the college is 5000.

Number of male students those who like at least one of these subject is

A) 990

B) 2220

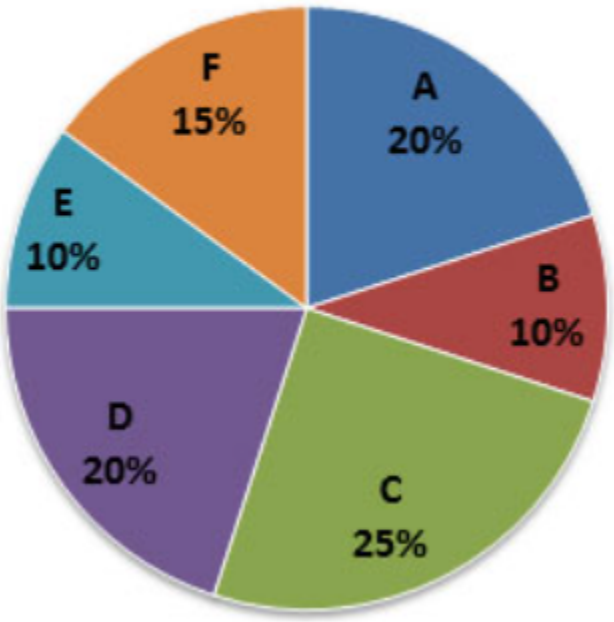
C)2020

D) 2010

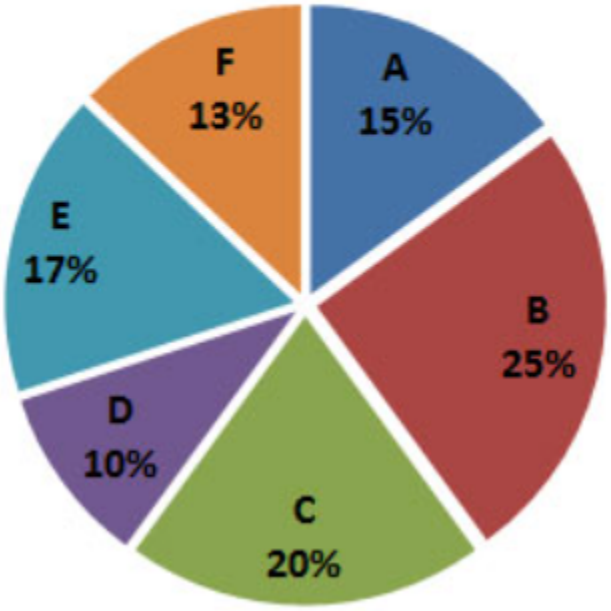
Ans: D

Q6) DIRECTIONS: The graphs below show the distance travelled by different cars and the time taken by them:

Percentage distance travelled by different Cars



Percentage distibution of time taken by different cars



Note: The entire questions given below are independent of each other :

If the difference between the distance travelled by car C and car F is 160km while the speed of car C is 80 kmph then find the speed of car D?

A) 128 kmph

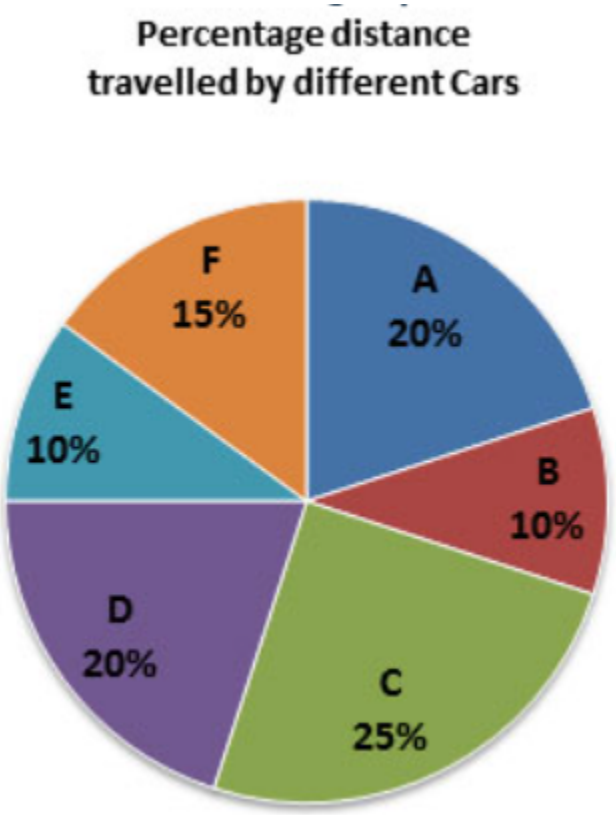
B) 143 kmph

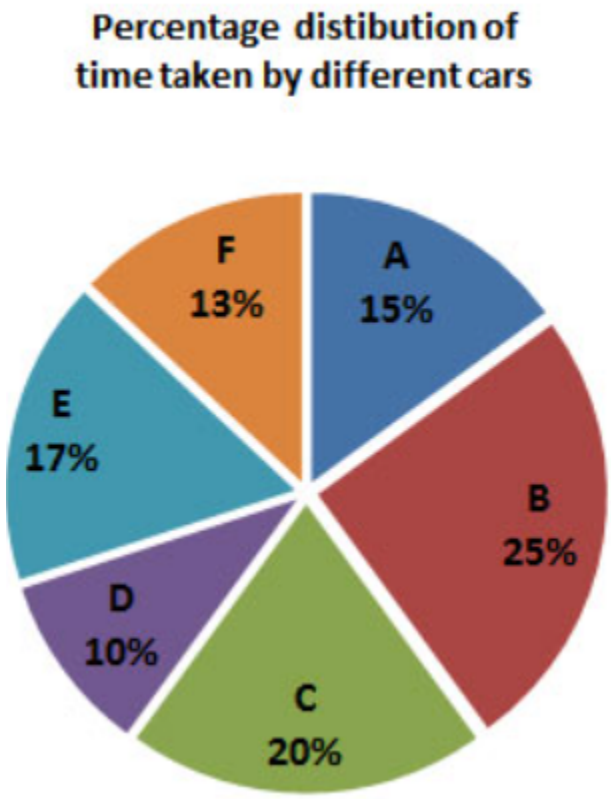
C) 90 kmph

D) 120 kmph

Ans: A

Q7) DIRECTIONS: The graphs below show distance travelled by different cars and time taken by them:





Note: The entire questions given below are independent of each other :

If the total distance travelled by all the cars is 1800 km and the time taken by car F is 2 hours less then

The time is taken by Car E then find the percentage by which the speed of car D is more/less than the speed of car C?

A) 70% more

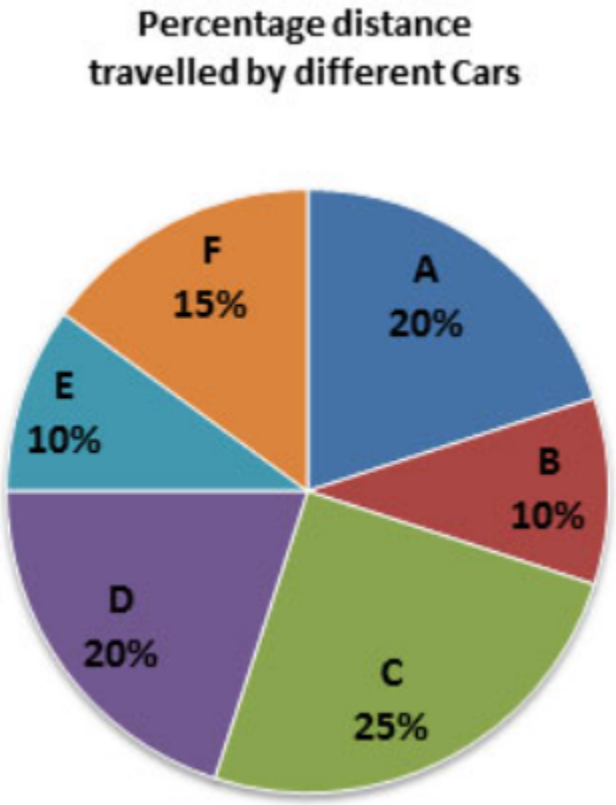
B) 25% more

C) 67% less

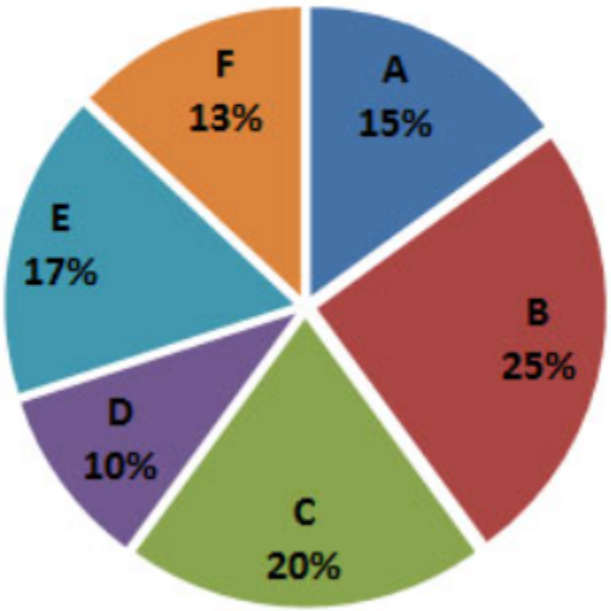
D) 60% more

Ans: D

Q8) DIRECTIONS: The graphs below show distance travelled by different cars and time taken by them:



Percentage distibution of time taken by different cars



Note: The entire questions given below are independent of each other :

If the speed of car A is 80 km and the total distance travelled by all the cars is 1500 km then find the speed of car C?

A) 75 kmph

B) 90 kmph

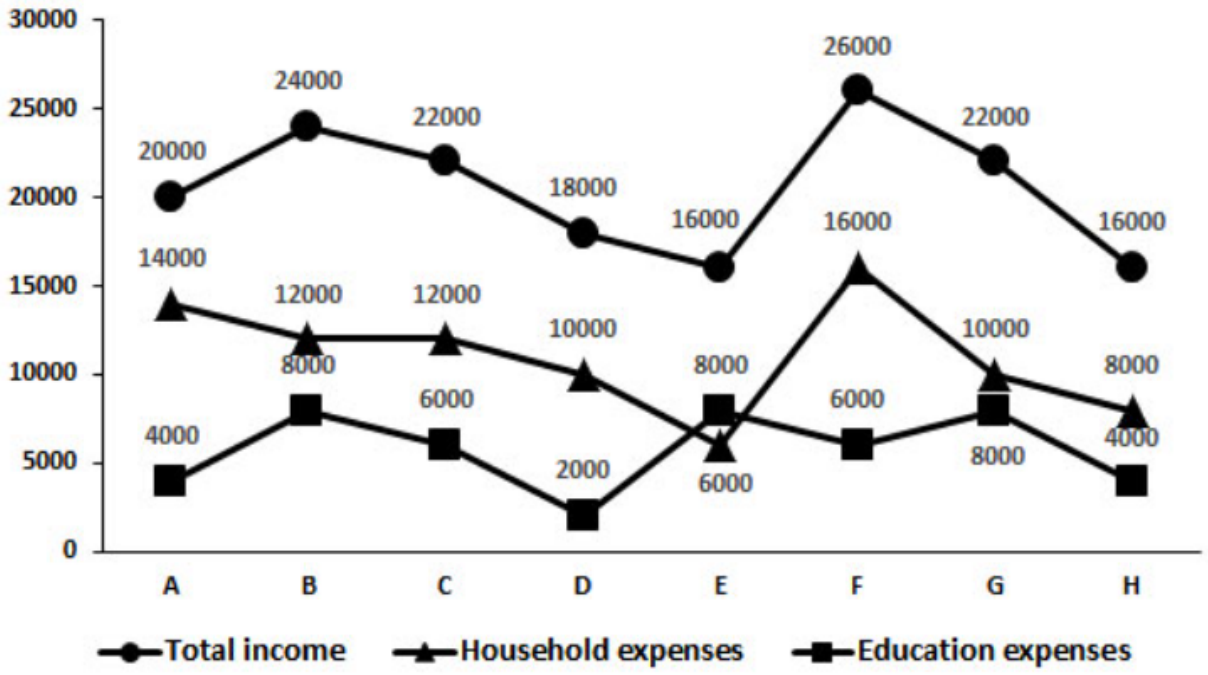
C) 100 kmph

D) 120 kmph

Ans: A

Q9) These questions are based on the information given on the next page.

The line graph shows the total monthly income and monthly expenditure of eight families – A, B, C, D, E, F, G, and H



Savings = Total income – (Household expense + Education expense)

Percentage Savings = Savings/total income X100

For how many families is the ratio of savings to educational expenses more than 0.6?

A) 4

B) 3

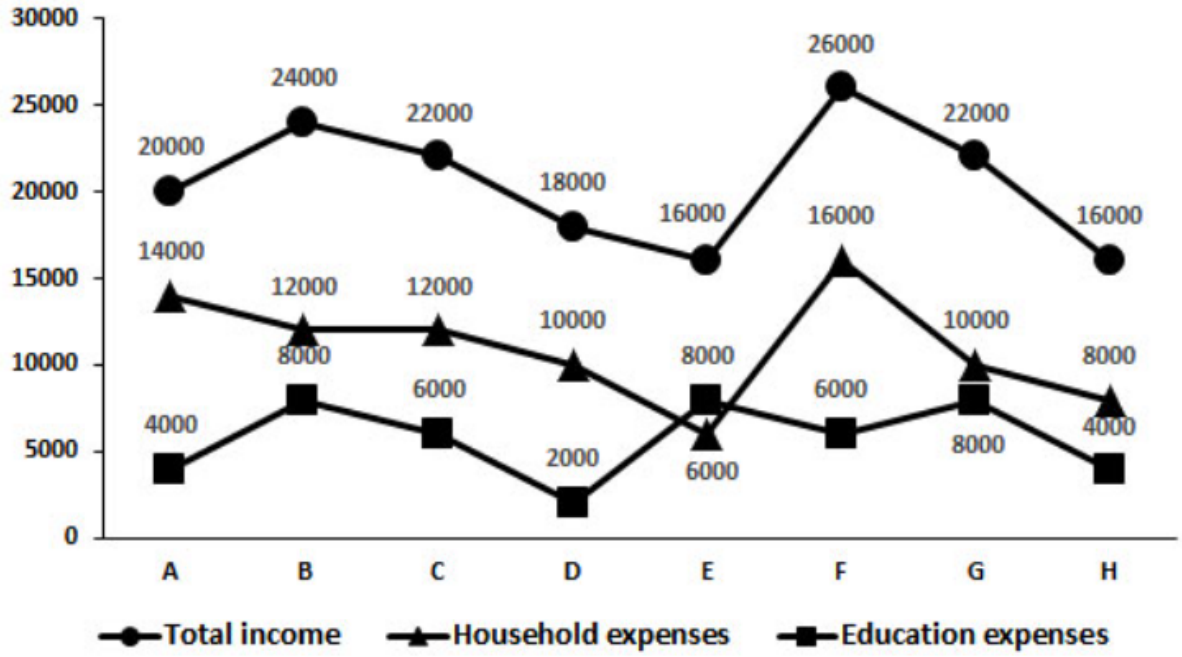
C) 6

D) 5

Ans: A

Q10) These questions are based on the information given on the next page.

The line graph shows the total monthly income and monthly expenditure of eight families – A, B, C, D, E, F, G, and H



Savings = Total income – (Household expense + Education expense)

Percentage Savings = Savings/total income X100

By what percentage are the savings of family D more than that of family A?

A) 200%

B) 160%

C) 175%

D) 100%

Ans: A