120+ PERCENT&GE QUESTIONS WITH SOLUTIONS

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Veena bought a watch costing Rs. 1404 including sales tax at 8%. She asked the shopkeeper to reduce the price of the watch so that she can save the amount equal to the tax. The reduction of the price of the watch is?

A. Rs. 108

B. Rs.104

C. Rs.112

D. Rs.120

E. None of these

Answer & Explanation

B. Rs.104

Explanation:

1.08x = 1404

x = 1300

The reduction of the price of the watch = 104

☐ A Sales Executive gets a commission on total sales at 8%. If the sale is exceeded Rs.10,000 he gets an additional commission as a bonus of 4% on the excess of sales over Rs.10,000. If he gets the total commission of Rs.950, then the bonus he received is?

A. 40

B. 50

C. 36

D. 48

E. None of these

Answer & Explanation

B. 50

Explanation:

Commission up to 10000 = 10000 * 8/100 = 800Ratio = 2x:x; Commission = 2x, Bonus = x; Bonus = 950 - 800 * 1/3 = 150 * 1/3 = 50

☐ In a College there are 1800 students. Last day except 4% of the boys all the students were present in the college. Today except 5% of the girls all the students are present in the college, but in both the days number of students present in the college, were same. The number of girls in the college is?

A. 1000

B. 400

C. 800

D. 600

E. 1200

Answer & Explanation

C. 800

Explanation:

From Options;

let Number of girls = 800

Number of boys = 1000

96% of 1000 + 800 = 95% of 800 +

1000[satisfies the condition; Check the condition with other options also]

☐ In a library 60% of the books are in Hindi, 60% of the remaining books are in English rest of the books are in Malayalam. If there are 4800 books in English, then the total number of books in Malayalam are?

A. 3400

B. 3500

C. 3100

D. 3200

E.None of these

Answer & Explanation

D. 3200

Explanation:

Let there are X books in the library.

Hindi books = 60% of X = 60X / 100 = 0.6X

Remaining Books = X - 0.6X = 0.4X

English books = 40% of reaming books = 60%

of 0.4X = 0.24X.

Malayalam Books = X-0.6X -0.24X = 0.16XGiven.

0.24X = 4800

X = 4800/0.24 = 20000

Malayalam Books = 0.16X = 0.16*20000 =3200.

□ 80% of a small number is 4 less than 40% of a larger number. The larger number is 125 greater than the smaller one. The sum of these two numbers is

A. 325

B. 345

C. 355

D. 365

E. None of these

Answer & Explanation

C. 355

Explanation:

smaller number = x; larger number = y

0.8x + 4 = 0.4y

4y - 8x = 40

y - x = 125

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x = 115; y = 240
x + y = 355

☐ In a private company 60% of the employees are men and 48% of the employees are Engineer and 66.6% of Engineers are men. The percentage of women who are not engineers is?

A. 60%

B. 50%

C. 55%

D. 65%

E. 45%

Answer & Explanation

A. 60%

Explanation:

Men = 600x

Women = 400x

Total engineers = 480x

Male engineers = 480x * 0.66 = 320x

Women who are Engineers = 160x

Women who are not Engineers = 400x - 160x =

Required percentage = 240/400 * 100 = 60%

☐ Initially, Suresh has Rs.200 in his paytm wallet then he increased it by 20%. Once again he increased his amount by 25%. The final value of money in his wallet will be how much % greater than the initial amount?

A. 40%

B. 50%

C. 80%

D. 60%

E. None of these

Answer & Explanation

B. 50%

Explanation:

200 + 20% of 200 = 240

240 + 25% of 240 = 300

Required percentage = 300 - 200/200 * 100 =50%

☐ Mr.Ramesh gives 10% of some amount to his wife and 10% of the remaining to hospital expenses and again 10% of the remaining amount to charity. Then he has only Rs.7290 with him. What is the initial sum of money with that person?

A. Rs.8000

B. Rs.9000

C. Rs.10000

D. Rs.20000

E. Rs.17200

Answer & Explanation

C. Rs.10000 Explanation:

Remaining amount = x * 0.9 * 0.9 * 0.9

0.729x = 7290

x = 10000

☐ Initially, a shopkeeper had "x" pens. A customer bought 10% of pens from "x" then another customer bought 20% of the remaining pens after that one more customer purchased 25% of the remaining pens. Finally, shopkeeper is left with 270 pens in his shop. How many pens were there initially in

his shop? A. 200

B. 800

C. 400

D. 600

E. 500

Answer & Explanation

E. 500

Explanation:

x*0.9*0.8*0.75 = 270

x = 270 * 10000 / 9 * 8 * 75

x = 500

☐ The cost of packaging of the oranges is 20% the cost of fresh oranges themselves. The cost of oranges increased by 30% but the cost of packaging decreased by 50%, then the percentage change of the cost of packed oranges, if the cost of packed oranges is equal to the sum of the cost of fresh oranges and cost of packaging

A. 14.5%

B. 16.66%

C. 14.33%

D. 13.66%

E. None of these

Answer & Explanation

B. 16.66%

Explanation:

Let initial Cost of fresh, oranges = 100.

packaging cost = 20. Initial total cost = 100 + 20= 120

After increasing in cost of fresh mangoes 30%, Cost of fresh mangoes = 130

And cost of packing go down by 50 % so,

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Cost of packing = 10. Total cost = 130 + 10 = 140. Increased cost = 140 - 120 = 20. % increased = (20*100)/120 = 16.66%.

П

Cost Price of two laptops is same. One of the laptops is sold at a profit of 15% and the Selling Price of another one laptop is Rs. 3400 more than the first one. The net profit is 20%. What is the Cost Price of Each laptop?

A.36000

B.40000

C.48000

D.34000

E.None of these

Answer & Explanation

D.34000

Explanation:

(2x*1.15) + 3400 = 2x*1.20

2.4x - 2.3x = 3400

x = 34000

☐ In an office there are 40% female employees. 50% of the male employees are UG graduates. The total 52% of employees are UG graduates out of 1800 employees. What is the number of female employees who are UG graduates?

A. 362

B. 412

C. 396

D. 428

E. None of these

Answer & Explanation

C. 396

Explanation:

Total employees = 1800

female employees = 40%

male employees = 60%

50% of male employess = UG graduates = 30% Female employees who are UG graduates = 22% 22% of 1800 = 396

□ Ravi got 70% in English and 56% in Biology and the maximum marks of both papers is 100. What percent does he score in Maths, if he scores 60% marks in all the three subjects? Maximum Marks of Maths paper is 200.

A. 30%

B. 40%

C. 45%

D. 25%

E. 57%

Answer & Explanation

E. 57%

Explanation:

70 + 56 + x = 60% of all three subjects

70 + 56 + x = 60% of 400

x = 240 - 126 = 114

% = 114/200 * 100 = 57%

☐ Ankita is 25 years old. If Rahul's age is 25% greater than that of Ankita then how much percent Ankita's age is less than Rahul's age?

A. 40%

B. 35%

C. 10%

D. 20%

E.None of these

Answer & Explanation

D. 20%

Explanation:

Percentage decrease = 25/125 * 100 = 20%

☐ Mr.Ravi's salary was reduced by 25% for three months. But after the three months, his salary was increased to the original salary. What is the percentage increase in salary of Mr.Ravi?

A. 33.33%

A. 33.33%

B. 42.85%

C. 28.56%

D. 16.66%

E. None of these

Answer & Explanation

A. 33.33%

Explanation:

Percentage increase = 25/75 * 100 = 33.33%

☐ In an election only two candidates A and B contested 30% of the voters did not vote and 1600 votes were declared as invalid. The winner, A got 4800 votes more than his opponent thus he secured 51% votes of the total voters on the voter list. Percentage votes of the loser candidate, B out of the total voters on the voter list is:

A. 5.6%

B. 3%

C. 6.2%

D. 5%

E. 4.6%

Answer & Explanation

B. 3%

Explanation:

Total voters on the voter list = x

0.51x + 0.51x - 4800 = 0.70x - 1600

1.02x - 4800 = 0.70x - 1600

x = 10000

Votes of the loser candidate = 5100 - 4800 =

Percentage votes of the loser candidate = 300/10000 * 100 = 3%

☐ In a school there are 2000 students. On January 2nd, all the students were present in the school except 4% of the boys and on January 3rd, all the students are present in the school except 28/3% of the girls, but in both the days number of students present in the school, were same. The number of girls in the school is?

A. 400

B. 1200

C. 800

D. 600

E. None of these

Answer & Explanation

D. 600

Explanation:

From Options;

let Number of girls = 600

Number of boys = 1400

96% of 1400 + 600 = [600 - 28/3 % of 600] +

1400 = 1944[satisfies the condition; Check the condition with other options also]

□ A school has raised 75% of the amount it needs for a new building by receiving an average donation of Rs. 1200 from the parents of the students. The people already solicited represents the parents of 60% of the students. If the School is to raise exactly the amount needed for the new building, what should be the average donation from the remaining students to be solicited?

A. Rs.800

B. Rs.900

C. Rs.850

D. Rs.600

E. Rs.720

Answer & Explanation

D. Rs.600 Explanation:

Let the number of parents be x who has been asked for the donations.

People already solicited = 60% of x = 0.6x

Remaining people = 40% of x = 0.4x

Amount collected from the parents solicited= 1200 *0.6x = 720x

720x = 75%; Remaining amount = 25% = 240x

Thus, Average donations from remaining parents = 240x / 0.4x = 600

☐ The monthly income of Shyama and Kamal together is Rs.28000. The income of Shyama and Kamal is increased by 25% and 12.5% respectively. The new income of Kamal becomes 120% of the new salary of Shyama. What is the new income of Shyama?

A. Rs.12000

B. Rs.18000

C. Rs.14000

D. Rs.16000

E. Rs.15000

Answer & Explanation

E. Rs.15000

Explanation:

The monthly income of Shyama and Kamal =>

S + K = 28000 - (1)

Shyama's income = x; Kamal's income = 28000 - x.

K = 120/100 * S - (2)

S's new income = (28000 - x)*112.5/100

K's new income = x * 125/100

(28000 - x)*112.5/100 = x * 125/100

x = 12000

New Income of Shyama = 125% of 12000 = 15000

□ 500 kg of ore contained a certain amount of iron. After the first blast furnace process, 200 kg of slag containing 12.5% of iron was removed. The percentage of iron in the remaining ore was found to be 20% more than the percentage in the original ore. How many kg of iron were there in the original 500 kg ore?

A. 54.2

B. 58.5

C. 46.3

Answer & Explanation

E. 89.2.

Explanation:

Initially 'x' kg of iron in 500 kg ore.

Iron in the 200 kg of removed =200*12.5/100= 25 kg.

The percentage of iron in the remaining ore was found to be 20% more than the percentage in the original ore

So (x-25)/300 = (120/100)*x/500

=> x - 25 = 18x/25

=> 7x = 625

=> x = 89.2

In a class of 60 students, 40% of the students passed in Reasoning, 5% of the students failed in Quants and Reasoning, and 20% of the students passed in both the subjects. Find the number of student passed only in Quants?

1.17

2.33

3.23

4.37

5. None of these

Answer & Explanation

Answer -2.33

Explanation:

Total students=60

Failed in both=5% of 60=3

Passed in both=20% of 60=12

Passed in reasoning=50% of 60=24

Those passed only in reasoning =24-12=12 students.

Passed only in Quants=60-(12+12+3)=33

☐ The maximum marks per paper in 3 subjects in Mathematics, Physics and Chemistry are set in the ratio 1:2:3 respectively. Giri obtained 40% in Mathematics, 60% in Physics and 35% in Chemistry papers. What is overall percentage marks did he get overall?

1.44%

2.32%

3.50%

4.60%

5. None of these

Answer & Explanation

Answer - 1.44%

Explanation:

40*1/100:60*2/100:35*3/100 = 0.4:1.2:1.05Overall % =100* [0.4+1.2+1.05]/1+2+3 = 265/6 = 44.16 = 44%

☐ In an examination, 50% of the students passed in Science and 75% passed in Social, while 20% students failed in both the subjects. If 270 students passed in both subjects, find the total number of students who appeared in the exam?

1.400

2.540

3.600

4.750

5. None of these

Answer & Explanation

Answer -3.600 Explanation:

passed in science = 50%

passed in social = 75%

20% students failed in both the subjects and 80% passed in at least one subject

No of students passed in both subjects = 50+75-x=80 x=45% 45% of x=270 x =

270*100/45 = 600

Total number of students =600

☐ Fresh fruits contain 75% while dry fruits—contain 20% water. If the weight of dry fruits is 300 kg, what was its total weight when it was fresh?

1.900kg

2.850kg

3.920kg

4.960kg

5. None of these

Answer & Explanation

Answer – **4.960kg**

Explanation:

Quantity of water in 300 kg dry fruits, = (20

/100) *300 = 60 kg

Quantity of fruit alone= 300-60 = 240 kg

25 kg fruit piece in 100 kg fresh fruits

For 240 = (100 *240)/25 = 960 kg.

☐ In a college election 35% voted for Person A, whereas 42% voted for Person B. The remaining people were not vote to any person. If the difference between those who

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vote for Person B in the election and those
who are uncertain was 570, how many people
are participated in the college election?
1.1500
2.2000
3.2100
4.1700
5. None of these
Answer & Explanation
Answer -2.3000
Explanation:
Let the number of individuals involved in
election be x.
Percentage of those who were not vote = 100-
(35+42) = 23\%
The difference between those who voted
42\% of x - 23\% of x = 570
19% of x = 570
x=570*100/19 = 3000
☐ In a factory there are three types of bulbs
L1, L2 and L3 which produces 20%, 15%
and 32% of the total products respectively.
L1, L2 and L3 produces 3%, 7% and 2%
defective products, respectively. Find the
percentage of non-defective products?
1.46%
2.30%
3.53%
4.64%
5. None of these
Answer & Explanation
Answer – 4.64%
Explanation:
(20*0.97)+(15*0.93)+(32*0.98) =
19.4+13.95+31.36
= 64.71
☐ In a class of 500 students ,65% are boys.
20% of the girls and 40% of the boys failed
the exam. Find the of students in the school
passed the exam?
1.335
2.270
3.400
4.362
5. None of these
Answer & Explanation
Answer - 1.335
Explanation:
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Total students are 100% = 500

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Boys = 65\% of 500 = 325,
Girls = 35% = 35*500/100 = 175
Girls failed in the exam= 175*80/100 = 140
Boys failed in the exam =40/100x 325 = 195
Total = 140 + 195 = 335
☐ The population of village increases at the
rate of 6% per annum. There is an additional
increase of 2% in the population due to rural
development. Therefore the percentage
increase in the population after 2 years will
be
1.15.46%
2.16.64%
3.14.46%
4.12.56%
5. None of these
Answer & Explanation
Answer − 2.16.64%
Explanation:
Total increase = 6+2 = 8\%
% increase = 8+8+(8*8/100) = 16+0.64 =
16.64%
☐ The total salary of Guagn and Harish in
an organization is Rs 30000. If the salary of
Gugan increase by 5% and salary of Harish
increase by 7%, then their total salary would
increase to Rs 31800. Find the salary of
Harish?
1.Rs.10,000
2.Rs.15,000
3.Rs.18,000
4.Rs.12,000
5. None of these
Answer & Explanation
Answer -2.Rs.15,000
Explanation:
7% increases 30000 = Rs 2100 = 30000+2100 =
Rs 32,100
But the actual increase in salary = 31800
Difference =32100 - 31800 = 300
2\% = 300
Gugan's salary =300/2 \times 100 = 15000
Harish's salary =30000 - 15000 = \text{Rs} \ 15000
☐ In an examination 70% candidates passed
in prelims and 55% candidates passed in
Mains. If 62% candidates passed in both
these subjects, then what per cent of
candidates failed in both the exams?
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1.37%

2.26%

3.43%

4.15%

5. None of these

Answer & Explanation

Answer - 1.37%

Explanation:

Students passed in Prelims = 70%

Students passed in Mains = 55%

Students passed in both = 62%

No of students passed in at least one subject = (70+55)-62 = 63%.

students failed in both subjects = 100-63 = 37%.



In a class, 60% of the students are boys and in an examination, 80% of the girls scored more than 40 marks(Maximum Marks:150). If 60% of the total students scored more than 40 marks in the same exam, what is the fraction of the boys who scored 40 marks or less.

A.8/15

B.7/15

C.4/5

D.1/5

Answer & Explanation

A.8/15

Explanation:

Assume Total no of students = 100

60% of the students are boys. so

Boys=60, Girls=40

No. of girls who scored more than 40 marks =

80% of girls = 80% of 40 = 32.

No. of students who scored more than 40 marks = 60% of Total Students = 60

Therefore No. of boys who scored more than 40 marks = 60-32=28

No. of boys who scored less= Total boys –

Boys(scored more) = 60-28=32

Fraction=(scored less)/Total boys = 32/60 = 8/15

☐ In an election 10% of the voters on the voters' list did not cast votes and 60 voters cast their ballot papers blank. There were only two candidates. The winner was supported by 47% of all voters in the list and he got 308 votes more than his rival. The number of voters on the list was:

A. 3600

B. 6200

C. 4575

D. 6028

Answer & Explanation

B. 6200

Explanation:

Let total number of voters= x

People who voted for the winner are = 0.47x

People who voted for the loser are = 0.47x-308

People who cast blanks are = 60

and people who did not vote are = 0.1x

solve the following equation

0.47x+0.47x-308+60+0.1x=x => x=6200

Deepak was to get a 50% hike in his pay but the computer operator wrongly typed the figure as 80% and printed the new pay slip. He received this revised salary for three months before the organization realized the mistake. What percentage of his correct new salary will get in the fourth month, if the excess paid to him in the previous three months is to be deducted from his fourth month?

A. 30%

B. 40%

C. 45%

D. 25%

Answer & Explanation

B. 40%

Explanation:

Assume Deepak's salary =10000

original hike(50%) amount = 5000; Revised

salary =15000

Wrongly typed(80%) hike amount = 8000

Diff = 3000; For three months = 9000

Fourth Month Salary = 15000-9000=6000

15000*x/100 = 6000 => x=40%

☐ The prices of two articles are in the ratio 3: 4. If the price of the first article be increased by 10% and that of the second by Rs. 4, the original ratio remains the same. The original price of the second article is

A. Rs.40

B. Rs.35

C. Rs.10

D. Rs.30

Answer & Explanation

A. Rs.40

Explanation:

Let the price of two articles are 3X and 4X. money for auto fare. She can buy either 40 After increment the ratio will be: apples or 70 oranges with that remaining 110% of 3x/(4X+4) = 3/4amount. If she buys 35 oranges, how many x = 10more apples she can buy? Thus the CP of second article = 4X = 4*10 = Rs. A. 35 B. 40 40. C. 15 ☐ The ratio of the number of boys and girls D. 20 in a school is 3:2. If 20% of the boys and 25% **Answer & Explanation** of the girls are scholarship holders, the D. 20 percentage of the students who are not **Explanation:** scholarship holders is Assume Total amount = Rs.100A. 30% Auto fare= 15% of Total amount i.e Rs.15 B. 60% Now the amount is Rs.85 C. 75% Price of 70 oranges = Rs.85D. 78% Price of 35 oranges = (85/70)*35 = Rs. 42.50**Answer & Explanation** Remaining amount to buy apples is =Rs. 42.50 D. 78% Price of 40 apples = Rs.85**Explanation:** Price of X apples = Rs.42.50Consider Total no of students = 100 X=(85/42.5)*40 = 20 Apples Ratio is 3:2 i.e Boys=60 and Girls=40 20% of boys who get scholarship = The price of a car is Rs. 4,50,000. It was 60*20/100=12% insured to 80% of its price. The car was 25% of girls who get scholarship = 40*25/100damaged completely in an accident and the insurance company paid 90% of the =10%Therefore % of students who do not get insurance. What was the difference between scholarship = 100-(12+10) = 78%the price of the car and the amount received? A. Rs. 1.76.375 ☐ Sohan spends 23% of an amount of money B. Rs.3,24,000 on an insurance policy, 33% on food, 19% on C. Rs.1,82,150 children's education and 16% on recreation. D. Rs.1,26,000 He deposits the remaining amount of Rs. 504 **Answer & Explanation** in bank. How much total amount did he **D. Rs.1.26.000 Explanation:** spend on food and insurance policy together? 4,50,000*(80/100)*(90/100)= 324000 A. Rs.3146 450000 - 126000 = Rs.1,26,000B. Rs.3126 C. Rs.3136 ☐ The tank-full petrol in Arun's motor-cycle D. Rs.3048 last for 10 days. If he starts using 25% more **Answer & Explanation** every day, how many days will the tank-full C. Rs.3136 petrol last? **Explanation:** A.4 **B.6** Total amount = xSavings(%) C.8 [100 - (23 + 33 + 19 + 16)]% = 9%D.10 9% of x = 504**Answer & Explanation** => x = 504 * 100/9 = 5600**C.8** Amount spend on food and insurance policy **Explanation:** together = 56% of 5600 = Rs.3136Assume – Arun's motorcycle uses 1L per day and therefore tank's Capacity = 10L. ☐ Deepika went to a fruit shop with a certain 25% increased per day= 1+(25/100) = 5/4 ie.

amount of money. She retains 15% of her

Dany Visio

1.25L per day Days = 10/1.25 = 8

☐ Last year there were 610 boys in a school. The number decreased by 20 percent this year. How many girls are there in the school if the number of girls is 175 percent of the total number of boys in the school this year?

A. 854

B. 848

C. 798

D. 782

Answer & Explanation

A. 854

Explanation:

No of boys in a school last year = 610 No of boys in a school for this year 610*80/100=122 610-122=488

No of girls =175/100 * 488=854

A reduction of 20% percent in the price of rice enables a housewife to buy 5 kg more for rupees 1200. The reduced price per kg of rice

- a) 36
- b) 45
- c) 48
- d) 60
- e) None of these

Answer & Explanation

Answer - c) 48

Explanation:

let original price is x rupees per kg 1200/(4x/5) - 1200/x = 5

We will get x = 60, so reduced price = (4*60)/5 = 48

☐ The population of a village has increased annually at the rate of 20%. If at the end of 3 years it is 21600, the population in the beginning of the first year?

- a) 10000
- b) 12500
- c) 15000
- d) 17500
- e) None of these

Answer & Explanation

Answer − **b**) **12500**

Explanation:

 $21600 = P*(1 + 20/100)^3$

- □ 12 percent of the voters in an election did not cast their votes. In this election there are only two candidates. The winner by obtaining 45% of the total votes and defeated his rival by 2000 votes. The total number of votes in the election
- a) 50000
- b) 75000
- c) 100000
- d) 125000
- e) None of these

Answer & Explanation

Answer - c) 100000

Explanation:

12% percent didn't cast their vote. 45% of total votes get by the winning candidates, so remaining 43% will be scored by his rival. So, (45/100 - 43/100)*P = 2000

P = 100000

- A number is first decreased by 25%. The decreased number is then increased by 20%. The resulting number is less than the original number by 40. Then the original number is –
- a) 100
- b) 200
- c) 300
- d) 400
- e) None of these

Answer & Explanation

Answer $-\mathbf{d}$) 400

Explanation:

Let the number is a

a - (75/100)*a*(120/100) = 40

we will get a = 400

- ☐ The number of seats in a cinema hall is decreased by 8% and also the price of the ticket is increased by 4 percent. What is the effect on the revenue collected?
- a) increase 4.32%
- b) decrease 4.32%
- c) increase 3.32 percent
- d) decrease 3.32%
- e) None of these

Answer & Explanation

Answer - **b**) **decrease 4.32%**

Explanation:

Let initially seats are 100 and price of each seat is 100, so total initial revenue = 10000 now, seats are 92 and price of each seat = 104,

so total revenue = 92*104 = 9568so percent change in revenue = (432/10000)*100= 4.32 decrease ☐ A man spends 60% of his income. His income is increased by 20% and his expenditure also increases by 10%. Find the percentage decrease in his saving? a) 10% b) 15% c) 20% d) 25% e) None of these **Answer & Explanation** Answer -a) 10% **Explanation:** Let initially income is 100. So, expenditure = 60and saving = 40now income is increased by 20% i.e. 120. So, expenditure = (70/100)*120 = 84 and saving = so % percent decrease in saving = (4/40)*100 =10% ☐ Weights of two friends A and B are in the ratio of 1:2. A's weight increases by 20% and the total weight of A and B together becomes 60 kg, with an increase of 30%. By what percent the weight of B increase? a) 30% b) 35% c) 40% d) 45% e) None of these **Answer & Explanation** Answer - **b**) 35% **Explanation:** weight of A is x and weight of B is 2x given that 60 kg weight is the 30% percent increase of the original weight, so (130/100)*W = 60, W = 600/13 kg (W =original weight) X + 2x = 600/13, x = 200/13So weight of A = 200/13 and of B = 400/13(120/100)*(200/13) + [(100 + a)/100]*(400/13)Solve for a. We will get a = 35%

☐ The marked price of an article is 20%

is given on the marked price. In this

higher than the cost price. A discount of 20%

transaction the seller

- a) bears no loss no profit
- b) losses 4%
- c) gain 4%
- d) losses 1%
- e) None of these

Answer & Explanation

Answer - **b**) losses 4%

Explanation:

let cost price = 100 so, marked price = 120 now discount of 20% is given, so sp = 120*80/100 = 96 so % loss = (4/100)*100 = 4 percent

- ☐ When the price of rice is increased by 30 percent, a family reduces its consumption such that the expenditure is only 20 percent more than before. If 50 kg of rice is consumed by family before, then find the new consumption of family (approx.)
- a) 43kg
- b) 44kg
- c) 45kg
- d) 46kg
- e) None of these

Answer & Explanation

Answer - **d)** 46kg

Explanation:

Suppose initially price per kg of rice is 100 then their expenditure is 5000.

Now their expenditure is only increased by only 20% i.e -6000.

Increased price of rice = 130.

So new consumption = 6000/130 = 46

- A man has 4000 rupees in his account two years ago. In the first year he deposited 20 percent of the amount in his account. In the next year he deposited 10 percent of the increased amount in the account. Find the total amount in the account of the person after 2 years.
- a) 6650
- b) 5280
- c) 5740
- d) 5840
- e) None of these

Answer & Explanation

Answer - **b**) **5280**

Explanation:

4000 + 800 + 480 = 5280

In an election contested by two parties A and B, party A secured 25 percent of the total votes more than Party B. If party B gets 15000 votes. By how much votes does party B loses the election?

- a) 8000
- b) 10000
- c) 12000
- d) 15000
- e) None of these

Answer & Explanation

Answer - **b**) **10000**

Explanation:

Let total votes = T and party B gets 15000 votes then party A will get T -15000 votes

T - 15000 - 15000 = 25T/100

T = 40000, so A get 25000 and B gets 15000 votes, so difference = 10000

- ☐ A vendor sells 50 percent of apples he had and throws away 20 percent of the remainder. Next day he sells 60 percent of the remainder and throws away the rest. What percent of his apples does the vendor throw?
- a) 20%
- b) 22%
- c) 24%
- d) 26%
- e) None of these

Answer & Explanation

Answer − d) 26%

Explanation:

Let total apples be 100

first day he throws = 50*20/100 = 10 apples next day he throws = 40*40/100 = 16 apples so total = 26

- □ 40% of the women are above 30 years of age and 80 percent of the women are less than or equal to 50 years of age. 20 percent of all women play basketball. If 30 percent of the women above the age of 50 plays basketball, what percent of players are less than or equal to 50 years?
- a) 50%
- b) 60%
- c) 70%
- d) 80%
- e) None of these

Answer & Explanation

Answer - c) 70%

Explanation:

take total women =100

Women less than or equal to 50 years = 80 andwomen above 50 years = 20

20 = women plays basketball

30% of the women above 50 plays basketball =

So remaining 14 women who plays basketball are less than or equal to 50 years

So (14/20)*100 = 70%

- ☐ Alisha goes to a supermarket and bought things worth rupees 60, out of which 40 paise went on sales tax. If the tax rate is 10 percent, then what was the cost of tax free items?
- a) 54.60
- b) 55.60
- c) 56.60
- d) 57.60
- e) None of these

Answer & Explanation

Answer - **b**) **55.60**

Explanation:

tax = 40/100 = (10/100) *T, T = 4

so cost of tax free items = 60 - 4 - 0.40 = 55.60

- □ 60 percent of the employees of a company are women and 75% of the women earn 20000 or more in a month. Total number of employees who earns more than 20000 per month in the company is 60 percent of the total employees. What fraction of men earns less than 20000 per month?
- a) 5/8
- b) 5/7
- c) 1/5
- d) 3/4
- e) None of these

Answer & Explanation

Answer -a) 5/8

Explanation:

let total employees are 100

males = 40 and females = 60 (45 women earns more than 20000)

total 60 employee earns more than 20000 per month, so number of males earns more than 20000 is 15

so fraction = 25/40 = 5/8

c) 17820

d) 19820

e) None of these

Explanation:

Answer – c) 17820

Answer & Explanation

15000*(11/10)*(12/10)*(9/10) = 17820

□ 30 litre of solution contains alcohol and

water in the ratio 2:3. How much alcohol

solution containing 60% of alcohol? **Answer & Explanation** alcohol = 30*2/5 = 12 and water = 18 litres (12 + x)/(30 + x) = 60/100, we will get x = 15☐ 2000 sweets need to be distributed equally among the school students in such a way that each student gets sweet equal to 20% of total students. Then the number of sweets, each **Answer & Explanation** (20/100)*t*t = 2000 (total students = t)In a library 5 percent books are in English, 10 percent of the remaining are in hindi and 15 percent of the remaining are in Sanskrit. The remaining 11628 books are in French. Then find the total number of books in the library. **Answer & Explanation** Answer – c) 16000**Explanation:** Let total books are A, then (95/100)*(90/100)*(85/100)*A = 11628☐ A solution contains 10% of salt by weight. On evaporation 15 litre of water evaporates

and now concentration of salt becomes 20

percent. Find the initial quantity of solution

a) 20ltr

b) 30ltr

- c) 40ltr
- d) 50ltr
- e) None of these

Answer & Explanation

Answer - **b**) 30ltr

Explanation:

Let initial quantity is x litre

final, salt = (x/10)/(x-15) = 20/100

☐ A student has to get 40 percent marks to pass an examination. He got 60 marks but fails by 20 marks. Find the maximum marks of the examination.

- a) 150
- b) 200
- c) 300
- d) 400
- e) None of these

Answer & Explanation

Answer -**b**) **200**

Explanation:

(40/100)*M - 20 = 60 (M is the maximum marks)

☐ The number of seats in a cinema hall is decreased by 12 percent and the price of tickets also decreased by 4 percent. Find the change in the collection of revenue.

- a) decrease 15.52%
- b) decrease 16.52%
- c) decrease 17.52%
- d) decrease 14.325
- e) None of these

Answer & Explanation

Answer −a) decrease 15.52%

Explanation:

Let initial seats = 100 and cost per seat = 100,

so initial revenue = 10000

now final revenue = 88*96 = 8448

% percent change in revenue = [(10000 -

8448)/10000]*100 = 15.52%

☐ A trader marks the price at 8 percent higher than the original price. Due to the hike in demand he again increases the price by 10 percent. How much percent profit he gets.

- a) 17.8%
- b) 18.8%
- c) 19.8%
- d) 20.8%
- e) None of these

Answer & Explanation

Answer - **b**) **18.8%**

Explanation:

Suppose initial price = 100

Then final price = 100*(108/100)*(110/100) = 118.8

So percent profit = 18.8

The population of a town is 15000. It increases by 10 percent in the first year and 20 percent in the second year. But in the third year it decreases by 10 percent. What will be the population after 3 years.

- a) 16820
- b) 15820
- c) 17820
- d) 19820
- e) None of these

Answer & Explanation

Answer - c) **17820**

Explanation:

15000*(11/10)*(12/10)*(9/10) = 17820

☐ One type of liquid contains 20 percent milk and in other liquid it contains 30 percent milk. If 4 parts of the first and 6 parts of the second are taken and formed a new liquid A. Find the percentage of milk in third liquid.

- a) 26
- b) 28
- c) 29
- d) 30
- e) None of these

Answer & Explanation

Answer -a) 26

Explanation:

milk = 20 and water = 80 (in 1st liquid)

milk = 30 and water = 70 (in 2^{nd} liquid)

milk in final mixture = 20*4 + 30*6 = 260

so (260/1000)*100 = 26%

 $\ \square$ A man has 2000 rupees in his account two years ago. In the first year he deposited 20 percent of the amount in his account. In the next year he deposited 10 percent of the increased amount in the account. Find the total amount in the account of the person after 2 years.

- a) 2650
- b) 2640
- c) 2740

- d) 2840
- e) None of these

Answer & Explanation

Answer − **b**) **2640**

Explanation:

2000 + 400 + 240 = 2640 (400 in first year and 240 is added in the second year)

- ☐ 1000 sweets need to be distributed equally among the school students in such a way that each student gets sweet equal to 10% of total students. Then the number of sweets, each student gets.
- a) 10
- b) 12
- c) 14
- d) 16
- e) None of these

Answer & Explanation

Answer -a) 10

Explanation:

No of students = T. Each student gets 10% of T. So, T students get $T^2/10$ sweets.

 $T^2/10 = 1000$. We get T = 10

- ☐ If the price of an article is increased by 15%, then by how much the household should decrease their consumption so as to keep his expenditure same.
- a) 13(1/23) %
- b) 13(2/23)%
- c) 11(1/23)%
- d) 11(2/23)%
- e) None of these

Answer & Explanation

Answer – a) 13(1/23) %

Explanation:

Decrease in expenditure = (15/115)*100 = 300/23 %

If the price of an article is increased by 15%, then by how much the household should decrease their consumption so as to keep his expenditure same.

- 1.13(1/23)%
- 2.13(2/23)%
- 3.11(1/23)%
- 4.11(2/23)%
- 5. None of these

Answer & Explanation

Answer -1.13(1/23)%

Explanation:

Decrease in expenditure = (15/115)*100 = 300/23 %

☐ The ratio between male and female in a city is 3: 7. The children percentage among the males and females of the city is 25 and 30 percent respectively. If the number of adult males in the city is 18000, then find the population of the town?

1.70000

2.80000

3.85000

4.95000

5. None of these

Answer & Explanation

Answer – **2.80000**

Explanation:

Males and females are 3x and 7x respectively (3x)*75/100 = 18000. X = 8000 so total population = 10*8000 = 80000

Pankaj gave 50 percent of the amount to akash. Akash in turn gave two-fifth of the amount to venu. After paying a bill of 500 rupees, venu now have 8000 rupees left with him. Find the amount hold by pankaj initially.

1.41500

2.42500

3.43500

4.44500

5. None of these

Answer & Explanation

Answer -2.42500

Explanation:

Let pankaj have P amount initially [[(50/100)*P]*2/5 - 500] = 8000P = 42500

□ Rakesh spent 30 percent of his monthly income on food items. Of the remaining amount he spent 60 percent on clothes and bills. Now he save five-seventh of the remaining amount and the he saves 120000 yearly, then find his monthly income.

1.40000

2.50000

3.60000

4.70000

5. None of these

Answer & Explanation

Answer – **2. 50000**

Explanation:

Let monthly income is P

(70/100)*P*(40/100)*5/7 = 10000

P = 50000

☐ Weight of A and B are in the ratio of 3:5. If the weight of A is increased by 20 percent and then the total weight becomes 132 kg with an increase of 10 percent. B weight is increased by what percent.

1.2%

2.3%

3.4%

4.5%

5. None of these

Answer & Explanation

Answer -3.4%

Explanation:

Weight of A and B are 3x and 5x.

Initial weight before increase = (132*100)/110 =120

8x = 120. X = 15

Initial weight of A and B are 45 and 75 kg respectively.

New weight of A = 54 so weight of B = 132 -54 = 78.

So % increase = [(78-75)/75]*100 = 4 %

☐ When the price of rice is increased by 25 percent, a family reduces its consumption such that the expenditure is only 10 percent more than before. If 40 kg of rice is consumed by family before, then find the new consumption of family.

1.35.2

2.35.2

3.36.2

4.37.2

5. None of these

Answer & Explanation

Answer - 2.35.2

Explanation:

Suppose initially price per kg of rice is 100 then their expenditure is 4000.

Now their expenditure is only increased by only 10% i.e - 4400.

Increased price of rice = 125. So new consumption = 4400/125 = 35.2

☐ The price of rice is increased by 20 percent and a person decrease his consumption by 15 percent, so his expenditure on rice is-

1.increase by 2 percent

2.increase by 4 percent

3.decrease by 2 percent

4.decrease by 4 percent

5. None of these

Answer & Explanation

Answer – 1.increase by 2 percent

Explanation:

Let initial price of rice – 100 and new price of rice - 120

suppose initial consumption is 100kg and new consumption is 85kg

Initial expenditure = 10000

New expenditure = 10200

(200/10000)*100 = 2 percent increase

A salary is 40 percent more than B. B's salary is 30 percent less than C. If the difference between the salary of C and A is 1200 rupees, then what is the monthly income of C

1.50000

2.60000

3.70000

4.80000

5. None of these

Answer & Explanation

Answer – **2.60000**

Explanation:

A = (140/100)*B

B = (70/100)*C

[(100/70) - (140/100)]*B = 1200.

B = 42000.

C = (100/70)*42000 = 60000

☐ When the price of rice is increased by 30 percent, a family reduces its consumption such that the expenditure is only 20 percent more than before. If 50 kg of rice is consumed by family before, then find the new consumption of family (approx.)

1.43kg

2.44kg

3.45kg

4.46kg

5. None of these

Answer & Explanation

Answer – **4.46kg**

Explanation:

Suppose initially price per kg of rice is 100 then their expenditure is 5000.

Now their expenditure is only increased by only 20% i.e -6000.

Increased price of rice = 130.

So new consumption = 6000/130 = 46.1

One type of liquid contains 20 percent of milk and second type of liquid contains 40 percent milk. If 4 part of the first and 6 part of the second are mix, then what is the percent of water in the mixture.

1.64%

2.66%

3.68%

4.70%

5. None of these

Answer & Explanation

Answer - 3.68%

Explanation:

Do these type of question by taking 100 litre water = 80ltr and 60ltr in first and second mixture respectively now percent of water = [(80*4 +

now percent of water = [(80*4 + 60*6)/1000]100 = 68%

40% of the students like Mathematics, 50% like English and 10% like both Mathematics and English. What % of the students like neither English nor Mathematics?

A) 25%

B) 10%

C) 20%

D) 60%

E) 80%

Answer & Explanation

C) 20%

Explanation:

n(M or E) = n(M) + n(E) - n(M and E)

n(M or E) = 40 + 50 - 10 = 80

so % of the students who like neither English nor Mathematics = 100 - 80 = 20%

☐ A watermelon weighing 20 kg contains 96% of water by weight. It is put in sun for

some time and some water evaporates so that now it contains only 95% of water by weight.

The new weight of watermelon would be?

A) 17 kg

B) 15 kg

C) 18.5 kg

D) 16 kg

E) 18 kg

Answer & Explanation

D) 16 kg

Explanation:

Let new weight be x kg

Since the pulp is not being evaporated, the quantity of pulp should remain same in both cases. This gives

(100-96)% of 20 = (100-95)% of x

Solve, x = 16 kg

☐ If the price of wheat is reduced by 2%.

How many kilograms of wheat a person can buy with the same money which was earlier sufficient to buy 49 kg of wheat?

A) 58 kg

B) 60 kg

C) 52 kg

D) 55 kg

E) 50 kg

Answer & Explanation

E) 50 kg

Explanation:

Let the original price = 100 Rs per kg Then money required to buy 49 kg = 49*100 = Rs 4900

New price per kg is (100-98)% of Rs 100 = 98So quantity of wheat bought in 4900 Rs is 4900/98 = 50 kg

☐ Monthly salary of A is 30% more than B's monthly salary and B's monthly salary is 20% less than C's. If the difference between the monthly salaries of A and C is Rs 800, then find the annual salary of B.

A) Rs 14,500

B) Rs 16,800

C) Rs 15,000

D) Rs 16,000

E) None of these

Answer & Explanation

E) None of these

Explanation:

Let C's monthly salary = Rs 100, then B's =

(100-20)% of 100 = 80, and A's monthly = (100+30)% * 80 = 104If difference between A and C's monthly salary is Rs 4 then B's monthly salary is Rs 80 So if difference is Rs 800, B's monthly salary is (80/4) * 800 = 16,000So annual salary = 12*16,000

☐ Mixture 1 contains 20% of water and mixture 2 contains 35% of water. 10 parts from 1st mixture and 4 parts from 2nd mixture is taken and put in a glass. What is the percentage of water in the new mixture of glass?

A) 17 (5/7)%

B) 24 (2/7)%

C) 28 (1/5)%

D) 24 (1/7)%

E) 18 (2/7)%

Answer & Explanation

B) 24 (2/7)%

Explanation:

Water in new mixture from 1st mixture = (20/100) * 10 = 2 parts

Water in new mixture from 2nd mixture = (35/100) * 4 = 7/5 parts

Required % = [2+(7/5)]/(10+4)] * 100

- □ 3 years ago the population of a town was 1,60,000. In the three respective years the population increased by 3%, 2.5% and 5% respectively. What is the population of town after 3 years?
- A) 1,77,366
- B) 1,66,733
- C) 1.76,736
- D) 1,80,766
- E) 1,69,766

Answer & Explanation

A) 1,77,366

Explanation:

New population = 1,60,000 [(1 + (3/100))] [(1 + (2.5/100))] [(1 + (5/100))]

□ There are 2500 students who appeared for an examination. Out of these, 35% students failed in 1 subject and 42% in other subject and 15% of students failed in both the subjects. How many of the students passed in either of the 2 subjects but not in both?

A) 1925

- B) 1175
- C) 1275
- D) 1100
- E) 1800

Answer & Explanation

B) 1175

Explanation:

Failed in 1st subject = (35/100) * 2500 = 875Failed in 1st subject = (42/100) * 2500 = 1050Failed in both = (15/100) * 2500 = 375So failed in 1st subject only = 875 - 375 = 500failed in 2nd subject only = 1050 - 375 = 675passed in 1st only + passed In 2nd only = 675+500

□ A bucket is filled with water such that the weight of bucket alone is 25% its weight when it is filled with water. Now some of the water is removed from the bucket and now the weight of bucket along with remaining water is 50% of the original total weight. What part of the water was removed from the bucket?

- A) 2/5
- B) 1/4
- C) 2/3
- D) 1/2
- E) 1/3

Answer & Explanation

C) 2/3

Explanation:

Let original weight of bucket when it is filled with water = x

Then weight of bucket = (25/100) * x = x/4Original weight of water = x - (x/4) = 3x/4Now when some water removed, new weight of bucket with remaining water = (50/100) * x = x/2

So new weight of water = new weight of bucket with remaining water – weight of bucket = [(x/2) - (x/4)] = x/4

So part of water removed = [(3x/4) - (x/4)]/(3x/4)

☐ In a survey done by a committee, it was found that 4000 people have smoking habit. After a month this number rose by 5%. However due to continuous advices given by the committee to the people, the number reduced by 5% in the next month and further by 10% in the next month. What is the total number of smokers after 3 months?

- A) 3457
- B) 3491
- C) 3578
- D) 3591
- E) 3500

Answer & Explanation

D) 3591

Explanation:

Number of smokers after 3 months will be = 4000 * (1 + (5/100)) (1 - (5/100)) (1 - (10/100))= 3591

- ☐ There are 5000 students in a school. The next year it was found that the number of boys and girls increased by 10% and 15% respectively making the total number of students in school as 5600. Find the number of girls originally in the school?
- A) 4500
- B) 2000
- C) 3000
- D) Cannot be determined
- E) None of these

Answer & Explanation

B) 2000

Explanation:

Let number of girls = x, then no of boys = (5000-x). then

10% of (1000-x) + 15% of x = (5600-5000)Solve, x = 2000

If x is 20% more than y, then by what percent y is smaller than x.

- a) 50/3 %
- b) 40/3 %
- c) 46/3 %
- d) 47/3 %

Answer & Solution

Answer -a) 50/3 %

Solution:

x = 120y/100 or x = 6y/5

y = 5x/6. Percentage by which y is smaller

Than x is [(x - 5x/6)/x]*100 = 50/3 %

☐ In an alloy, there is 15% of brass, to get 90 kg of brass, how much alloy is needed?

- a) 400 kg
- b) 500 kg
- c) 600 kg
- d) 700

Answer & Solution

Answer - c) 600 kg

Solution:

Let X kg of alloy is needed. So, 15/100 of X = 90. So X = 600 kg

- ☐ 25 litre of solution contains alcohol and water in the ratio 2:3. How much alcohol must be added to the solution to make a solution containing 60% of alcohol?
- a) 10.5 ltr
- b) 11.5 ltr
- c) 12.5 ltr
- d) 13.5 ltr

Answer & Solution

Answer - c) 12.5 ltr

Solution:

Initially alcohol 2/5 * 25 = 10 ltr and water is 15 ltr

To make a solution of 60% alcohol (10+x)/25+x = 60/100. X = 12.5

- In an examination if a person get 20% of the marks then it is fail by 30 marks. Another person who gets 30% marks gets 30 marks more than the passing marks. Find out the total marks and the passing marks.
- a) 600 and 150
- b) 600 and 180
- c) 500 and 150
- d) 500 and 180

Answer & Solution

Answer - a) 600 and 150

Solution:

20% of X = P - 30 (X = Maximum marks and P = passing marks)

30% of X = P + 30. Solve for X and P.

- ☐ A company has produced 900 pieces of transistor out of which 15% are defective and out of remaining 20 % were not sold. Find out the number of sold transistor.
- a) 610
- b) 611
- c) 612
- d) 614

Answer & Solution

Answer - c) 612

Solution:

No of transistor sold = 900*(85/100)*(80/100) = 612

☐ In an election the votes between the winner and loser candidate are in the ratio 5:1. If total number of eligible voters are 1000, out of which 12% did not cast their vote and among the remaining vote 10% declared invalid. What is the number of votes the winner candidate get? a) 620 b) 630 c) 640 d) 660 **Answer & Solution** Answer - **d**) **660 Solution:** Ratio b/w winner and loser 5:1 Total no of votes casted actually = 1000*(88/100)*(90/100) = 7925x + x = 792, X = 132Votes of winner candidate = 5*132 = 660☐ If the price of a commodity is increased by 30%, by how much % a consumer must reduce his consumption so to keep the expenditure same? a) 100/13 b) 200/13 c) 300/13d) 400/13 **Answer & Solution** Answer - c) 300/13 **Solution:** If commodity price is increased then reduction in consumption will be [(increase in price)/100 + increase in price]*100. (30/130)*100 = 300/13%□ 1000 sweets need to be distributed equally among the school students in such a way that each student gets sweet equal to 10% of total students. Then the number of sweets, each student gets. a) 10 b) 12 c) 14 d) 16 **Answer & Solution** Answer -a) 10 **Solution:** No of students = T. Each student gets 10% of T.

So, T students get T^2/10 sweets.

 $T^2/10 = 1000$. So T = 100. So each student gets 10 sweets ☐ Rishi salary is first increased by 20% and then decreased by 25%. How much percent the salary increased/decreased? a) 5% b) 10% c) 15% d)20%**Answer & Solution** Answer − **b**) **10% Solution:** Take 100 as rishi salary. Increased by 20% percent = 120. Then decreased by 25%, i.e = (75/100)*120 =90. So percentage decrease is 10%. ☐ The income of a person is 10000 and its expenditure is 6000 and thus saves 4000rs. In the next year his income is increased by 10% and its expenditure increased by 20%. Now his saving is what percent lower than the previous saving. a) 5% B) 7.5% c) 10% d) 15% **Answer & Solution** Answer -a) 5% **Solution:** Initially I-E = S (I = Income, E = expenditure, S= saving) 10000-6000 = 4000(saving) Now, I = 11000 and E = 7200. So saving = I - E= 3800.[(4000-3800)/4000]*100 = 5%From the salary, Akilesh spent 15% for house

From the salary, Akilesh spent 15% for house rent, 5% for children's education and 15% for Entertainment. Now he left with Rs.13,000. His salary is

Rs.13,000. His A)19,000

B)20,000

C)18,000

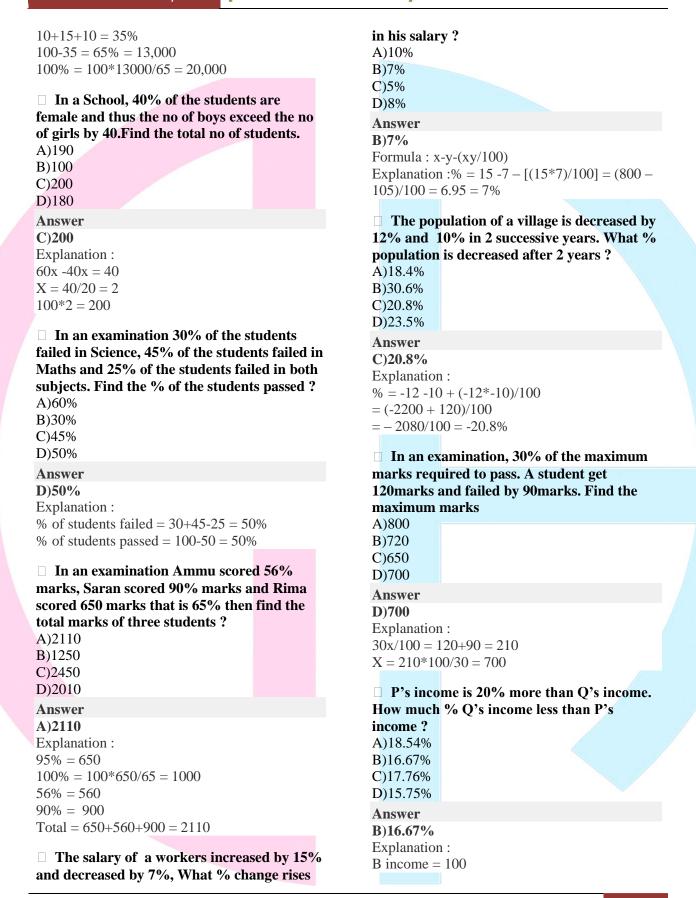
C)18,000

D)15,000

Answer

B)20,000

Explanation:



Ganesh scores 60% and 80% in Maths and

A income = 100*120/100 = 120Science.He scored 70% in aggregate.His % = (120-100/120)*100 = 16.67%Percentage of mark in Social is A)50☐ The price of rice is increased by 15%. The B)60 percentage of reduction that a family should C)70effect in that use of rice, so as not to increase D)80 the expenditure is E)None of these A)13% **Answer** B)10% Answer -C) 70 C)15% Total percentage of 3 subjects = $3 \times 70 = 210$ D)17% % in Social = 210 - (60 + 80) = 210 - 140 = 70**Answer** Explanation: A)13% Formula: x*100/x+100☐ If the radius of the circle is increased by Explanation : Reduction % = 15*100/100+15 =5% then the area is increased by 1500/11513.04 = 13%A)10.20B)10.22 ☐ The value of commodity depreciated 20% C)10.24annually. If the value of commodity 3vrs ago D)10.25was Rs.10,500,Find it's present value? E)None of these A)3678 **Answer** B)5700 Answer -D) 10.25% C)4567 $5 + 5 + ([5 \times 5]/100) = 10 + 0.25 = 10.25\%$ D)5376 Explanation: **Answer** ☐ A number is mistakenly divided by 8 D)5376 instead of being multiplied by 8. What is the Explanation: Present value = percentage of error in the result? 10,500*80*80*80/100*100*100 A)98.43 = 10500*8*8*8/1000 B)98.34 = 5376C)95.76D)97.76E)None of these One type of liquid contains 20% water and Answer the second type of liquid contains 35% Answer -A) 98.43 water. A glass filled with 8 parts of the first Explanation: liquid and 5 parts of the second liquid. The % of error = $([8x - (x/8)] / 8x) \times 100$ water percentage in the new mixture is $= [64 - 1 / 64] \times 100$ A)25.75 $= 63 \times 100/64 = 98.43$ B)25.76 C)25.67☐ A book consist of 45 pages, 30 lines on D)25.56 each page and 60 character on each line.If E)None of these this content is written in another note book **Answer** consisting of 40 lines and 32 character oer Answer -B) 25.76% line then the required no of pages will be how Explanation: much percentage more than the previous no of pages? $[(20\times8)+(35\times5)]/(8+5) = 335/13 = 25.76\%$ A)20% ☐ In an examination there are 3 subjects B)30% Maths, Science and Social of 100 marks each. C)40%

D)50% E)None of these Answer Answer -C) 40% Explanation: $45\times30\times60 = X\times40\times32$ Page = $X = (45\times30\times60)/(40\times32) = 63.28 = 63$ $63-45=18$ $(18/45)\times100=40\%$ In an election a candidate who got 25% of the total votes polled was defeated by his rival by 270 votes. Assuming that there were only 2 candidates in the election, the total number of votes polled was A)400 B)500 C)440 D)540 E)None of these Answer Answer -D) 540 Explanation: $75\% \ x - 25\% \ x = 270$ $50\% \ of \ x = 270$ $X = (270\times100)/50 = 540$	the rate of 20% per year. The population 3 years ago was A)9546 B)9547 C)9548 D)9549 E)9550 Answer Answer -D) 9549 Explanation: = 16500 / {1+(20/100)}³ = (16500×10×10×10)/(12×12×12) = 9548.6 = 9549 The mean annual salary paid to all employees was Rs.5000. The mean annual salary paid to all male and female workers were Rs.5200 and Rs.4200. The percentage of female worker in the company is A)80% B)20% C)60% D)40% E)None of these Answer B 20%
☐ The total number of girls in a class is 45% more than the total number of boys in the class. The total number of students in the class	☐ The passing marks in an examination is 40%.If Ashok gets 88 marks and is declared failed by 10 marks, then the maximum mark
is 294 then what is the difference between the total number of girls and boys? A)54 B)52 C)76 D)78 E)70	in the examination is A)240 B)242 C)245 D)246 E)None of these Answer
Answer Answer -A) 54 Explanation: No of boys = x No of girls = $X + x(45/100)$ = $29x/20$ Total = $X+(29x/20) = 294$ $49x = 294 \times 20 = 5880$ $X = 5880/49 = 120(boys)$ Girls = $(29 \times 120)/20 = 174$ Difference = $174 - 120 = 54$	Answer -C) 245 Explanation: 88+10 = 98 Pass mark = 40% Maximum mark = (98×100)/40 =245
☐ The population of a town is 16500.During the last 3 years,the population increased at	