

ALLIGATION

1. Gold is 19 times as heavy as water and copper 9 times. in what ratio should these metals be mixed so that the mixture may be 15 times as heavy as water? ans:3:2
2. how much chicory at Rs 4 / kg should be added to 15 kg of tea at Rs 10/kg,so that the mixture be worth Rs 6.50/kg?ans:Rs 21 kg of chicory
3. a mixture of 40 ltrs of milk and water contains 10% water. how much water must be added to make water 20% in the new mixture?ans:5 ltrs
4. a man has 30000 rupees to lend on loan. he lent some of his capital to mohan at an interest rate of 12% per annum. at the end of one year he got 17% of his capital as interest. how much did he lend to mohan?ans:Rs 18750/-
5. a vessel of 80ltrs is filled with milk and water. 70% of milk and 30% of water is taken out of the vessel.it is found that the vessel is vacated by 55%. find the initial quantity of milk and water?ans:50 ltrs
6. a man has 60 pens. he sells some of these at a profit of 12% and the rest at 8% loss. on the whole, he gets a profit of 11%.how many pens were sold at 12% profit and how many at 8% loss?ans:19:1
7. the ratio of milk and water in 66 kg of adulterated milk is 5:1. water is added to it to make the ratio 5:3. the quantity of water added is?ans:22 ltrs
8. a dishonest milkman professes to sell his milk at cost price but he mixes it with water and thereby gains 25%. the percentage of water in the mixture is?ans:25%
9. a sum of Rs 41 was divided among 50 boys and girls. each boy gets 90 paise and each girl 65 paise. the number of boys is?ans:34
- 10.a can contains a mixture of two liquids A and B in proportion 7:5. when 9 ltrs of mixture are drawn off and the can is filled with B the proportion of A and B becomes 7:9. how many litres of liquid A was contained by the can initially?ans:36 ltrs

HCF AND LCM

1. Find the greatest weight which can be contained exactly in 1 kg 235 gm and 3 kg 430 gm?ans:5 gm
2. find the HCF of $\frac{54}{9}$, $\frac{39}{17}$ and $\frac{36}{51}$? ans: $\frac{6}{17}$
- 3.what is greatest number that will divide 2400 and 1810 and leave remainders 6 and 4 respectively?ans:42
- 4.find the greatest no. which will divide 410,751 and 1030 so as to leave remainder 7 in each case?ans: 31
5. the product of two numbers is 7168 and their HCF is 16.find the numbers?ans:448,16 or 112,64

6.find the least number which when divided by 18, 24, 30 and 42, will leave in each case the same remainder 1? ans:2521

7.find the least number which when divided by 2,3,4,5,6 leaves in each case a remainder of 1,but when divided by 7 leaves no remainder?ans:301

8.find the sum of numbers between 300 and 400 such that when they are divided by 6,9 and 12 , it leaves no remainder.?ans:1080

simple interest&compound interest

1. in what time will Rs 390625 amount to Rs 456976 at 4% compound interest? ans:4 yrs
2. a sum of money placed at compound interest doubles itself in 4 yrs. in how many yrs will it amount to eight times itself? ans: 12 yrs
3. find the least number of complete yrs in which a sum of money at 20% CI will be more than doubled?ans 4 yrs
4. if CI on a certain sum for 2 yrs at 3% be Rs 101.50, what would be the SI?Rs 100
5. the difference between the CI and the SI on a certain sum of money at 5% per annum for 2 yrs is Rs 1.50. find the sum? ans:Rs 600
6. find the difference between the CI and the SI for the sum Rs 1500 at 10% per annum for 2 yrs?ans:Rs 15
7. if the compound interest on a certain sum of money for 2 yrs at 5% is Rs 246, find the SI at the same rate for the same time?ans: Rs240
8. find the simple interest on Rs 306.25 from march 3 to july27 at 3.75% per annum? ans:Rs 4.59 nearly
9. what annual payment will discharge a debt of Rs 770 due in 5 yrs, the rate of interest (si) being 5% per annum?ans:Rs 140
- 10.a certain sum of money amounts to Rs 756 in two yrs and to Rs 873 in 3.5 yrs.find the sum and the rate of interest.?ans:13% per annum

ratio and proportion

1. if 0.7 of one number be equal to 0.075 of another, what is the ratio of the two numbers?ans:3:28
2. two sums of money are proportional to 8:9. if the first is Rs 20, what is the other?ans:Rs22.50
3. calculate the 4th proportional to the number 490,70,69?ans:60/7
4. divide Rs 324.36 into three parts in the proportion of 5:6:7?ans:90.10,108.12,126.14
5. if 30 men do a piece of work in 27 days, in what time can 18 men do another piece of work 3 times as great?ans:135 days

6. if 1000 copies of a book of sheets require 26 reams of paper , how much paper is required for 5000 copies of a book of 17 sheets? ans:170 reams
 7. an employee reduces the no. of his employees in the ratio 9:8 and increases their wages in the ratio 14:15. state whether his bill of total wages increaes or decreases, and in what ratio?ans:decrease in bill,21:20
 8. what must be added to two numbers that are in ratio 3:4. so that they become in the ratio 4:5? ans:1
 9. the speed of three cars are in the ratio 2:3:4. what is the ratio among the times taken by these cars to travel the same distance?ans:1/2:1/3:1/4 or,6:4:3
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PROFIT AND LOSS

1. man buys a shirt and a trouser for Rs 371. if the trouser costs 12% more than the shirt,find the cost of the shirt?ans.Rs 175
 2. if by selling 2 items for Rs 180 each the shopkeeper gains 20% on one and loses 20% on the other, find the value of the loss?ans:Rs15
 3. by selling 15 mangoes a fruit vendor covers the cost price of 20 mangoes. find the profit percentage?ans.33.33%
 4. a manufacturer makes a profit of 15% by selling a colour TV for Rs6900. if the cost of manufacturing increases by 30% and the price paid by the retailer is increased by 20%, find the profit percent made by the manufacturer?ans 6.15%
 5. find a single discount to equal three consecutive discount of 10%, 12% and 5%? ans 24.76%
 6. ashok bought an article and spent Rs 110 on its repair. he then sold it to bhushan at a profit of 20%. bhushan sold it to charan at a loss of 10%. charan finally sold it for Rs 1188 at a profit of 10%. find the cost price that ashok had to pay?ans Rs 890
 7. oranges are bought at 12 for a rupee and are sold at 10 for a rupee. find the percentage profit or loss?ans 20%
 8. a digital diary is sold for Rs 935 at a profit of 10%.what would have been the actual profit or loss on it, if he had sold his goods for Rs 810?ans:
 9. a trader allows discount of 5% for cash payment. how much percent above the cost price must he mark his goods to make a profit of 10%? ans. Rs115.59
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Numerical Ability:

1) $723.870 - ? = 251.36 + 450.478$

- a. 22.032 b.23.032 c.22.132 d.none of these

2) $35\% \text{ of } 80 = 56$

?

- a.2 b.2/3 c.1/2 d.0.57 e. none of these

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3) $(11)^2 - (1.1)^2 - (0.11)^2 = ?$

a. 119.7779 b. 121 c. 119.79 d. 119.8021 e. none of these

4) $60 + 5 * 12 / (180 / 3) = ?$

a. 60 b. 120 c. 13 d. 61 e. none of these

5) 49% of 490 + 490% of 49 = ?

a. 2641.1 b. 240.1 c. 2401 d. 480.2 e. none of these

6) $8.36 * 4.35 + 8.0004 = ?$

a. 44.37 b. 44.3664 c. 43.5304 d. 42.3664 e. none of these

7) $19.24 / 4 = ?$

$\sqrt{169} * 74$

a. 0.005 b. 0.002 c. 0.0002 d. 0.00002

8) $3/4 - 1/2 - 1/6 - 1/3$ is equal to

a. 1 b. $1/8$ c. 2 d. $1/12$ e. $(-1/4)$

9) Which is the smallest fraction? $5/6, 3/8, 2/3, 3/4$

a. $5/6$ b. $3/8$ c. $3/4$ d. $2/3$

10) $0.55 * 0.55 + 2 * 0.55 * 0.45 + 0.45 * 0.45 / 0.55 + 0.45$

a. 2 b. 0.25 c. 0.2 d. 1 {hint $a^2 + 2ab + b^2 = (a+b)(a+b)$ }

TIME & WORK

Q1) 'A' can do a piece of work in 10 days and B can do the same work in 15 days. In how many days the work will be done if they work together?

Ans - A & B whole work can do = 6 days

Q2) If 'm' men working 'm' hours a day for 'm' days can produce 'm' units of work, then the units of work produced by 'n' men working 'n' hrs a day for 'n' days is

Ans - n^3 / m^2

Q3)3 men can do as much work on 5 women or 10 children. If 40 children can do a piece of work in 7 days , then 6 men , 5 women and 5 children can do the same work in:

Ans - a)7 days b)8 days c)9days d)12days e)none

Q4)A tap can fill a tank in 9 min,another can fill it in 18 min and a third one can empty it in 12 min. How long does it take to fill the tank if all are open.

a)15mts b)18 mts c)24mts d)36mts e)none {ans 12mts}

Q5)A and b can do a piece of work in 12 days.B and c can do it in 15 days .C and A can do it in 20 days.They all worked for 6 days and then A and C left.In how many days B can finish the balance of work.

a)8days b)9days c)10days d)12days

Q6)A contractor undertakes to do a piece of work in 40 days.He engages 100 men and after 35 days ,an additional 100 men,and completes the work.How many days behind schedule would he has been ,if he not engaged the additional men?

a)5 b) 8 c) 12 d)18 e)data is insufficient

Q7)In a day A does twice as much work as B and is therefore able to finish a piece of work in 60 days less than B.In what would A and b working together can finish the work?

a)20days b)25days c)30days d)40days e)60days

Q8)20men can do a work in 18 days. How many men are required to finish $\frac{3}{4}$ of the work in 15 days?

a)10 b)12 c) 18 d)20 e)none

Q9)Ramesh can do a work in 20 days.He worked alone for 10 days.Remaining work was completed with the help of Dinesh in 2 days will the work be completed by both together?

Ans - 4days

Q10) A and B together can do a work in 24 days. B alone does its $\frac{1}{3}$ part in 12 days. How long will A alone take to do the remaining work?

a)48 b)36 c)24 d)72 e) none of these

SPEED ,TIME AND DISTANCE

- $1 \text{ km} = 5/18 \text{ m/sec}$
- when a train crosses a man/pole, distance = length of train
- when a train crosses a bridge/platform, distance = length of train + length of platform
- when there are two moving bodies, speed is to be replaced by relative speed, $RS = x + y$ (opposite direction)
 $RS = x - y$ (same direction)

Q1) A person walking at 2.5 km/hr , reaches his office 6 min late. If he walks 3.5 km/hr , he reaches there 6 min earlier. How far is the office from his house?

Ans - 1 3

4

Q2) A man can swim 40 km downstream in 4 hrs and the same distance upstream in 20 hrs. Find the speed of the stream?

Ans - $x + y = 40/4 = 10$

$x - y = 40/20 = 2$

$2y = 8$, speed of stream = 4 km/hr

Q3) A passenger train 250 m in length crosses a platform 350 m long in 45 sec. The speed of the train will be.

Ans - 48 km/hr

Q4) A train of length 290 m , is going at a speed of 30 km/hr and another train of length 210 m is moving at a speed of 20 km/hr in the opposite direction. The time required by them to cross each other is

a)20sec b)24sec c)36sec d)54sec e)none

Q5)I can row 100km downstream in 5 hrs and the same distance upstream in 10 hrs.the speed of the stream is

a)15km/hr b)10km/hr c)5km/hr d)5/2km/hr e) none

Q6)A cyclist goes at a speed of 12km/hr .He can cover 100m in

a)10sec b)20sec c)30sec d) 1min e)none

Q7)The speed of a boat in still water is 3km/hr and the speed of the stream is 2km/hr. It can cover 10km downstream on

a)10hrs b)5hrs c)3hrs d)2hrs e)none

Q8)A train moving at a speed of 50km/hr crosses a length 100m in 18 sec. Its length is :

a)100m b)120m c)150m d)180m e)none

Q9)A 150m long train crosses a man walking at the speed of 6km/hr in the opposite direction in 6 sec.The speed of the train in km/hr is

a)66 b)84 c) 96 d)106

Q10)A man can row $9\frac{1}{3}$ km/hr in still water and he finds that it takes him thrice as much time to row up them so as to row down the same distance in river.The speed of the current is

a)10/3km/hr b)28/9km/hr c)5/4km/hr d)14/3km/hr

MISCELLEANOUS PROBLEMS

Q1) The price of one dozen pens is Rs540. What will be the price of 319 such pens ?

Ans - price of 12 pens = Rs540

price of 1 pen = $540/12$

price of 319 pens = $540*319/12 = Rs 14355$

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Q2)A tank can be filled by 20 buckets each of capacity 13.5 lit. If the capacity of each bucket be 9lit ,how many bucket will fill the same tank?

Ans - 30 buckets

Q3)Five dozen toys are packed in a box and 98 boxes are kept in tempo.How many tempoes can lift 29400 toys in one round.

a)4 b)5 c)7 d)6 e) none of these

Q4)The ratio between the present ages of Naveen and Prabhat is 4:5. If after 5 years the ratio of the present age of Prabhat and tha age of Prabhat at that time is 7:8 what will be the ratio between the present age of naveen and Naveen's after 4 years?

Ans - 7:8

Q5)The age of sushil 6 years ago was 3 times the age of Snehal .6 years hence the age of Sushil would be 5/3 times that of Snehal.What is the present age of Snehal?

a)14yrs b)22yrs c)18yrs d)21yrs e)none of these

Q6)1/4th part of money of Nikhil is equal to 1/6th part of the money of Yogesh. If total sum of both is equal to Rs 600 then , what is the difference of their money

Ans - Rs120

Q7)In an office there are 114 tables and 129 chairs . If 1/6 of the tables and 1/3 of the chairs are broken, how many people work in the office when each person requires one table and one chair?

Ans - required no. of persons 86

Q8)1/5th of Gopal's expenditure is equal to 1/2 of his savings.if his monthly income is 5600 how much amount does he save per month ?

a)Rs1350 b)1500 c)1680 d)1400 e)none of these {savings = 1600}

Formulae:

Let 3 consecutive odd no. be $y-2$, y , $y+2$ respectively

total of these odd no. = $3y$

Let 3 consecutive even no. be $x-2$, x , $x+2$ respectively

total of these = $3x$

Q9)The difference between the middle number of three consecutive odd numbers and the middle of three consecutive even no is 7. What will the difference between the total of these odd no and the total of those three even numbers?

Ans - 21

Q10)The difference of two numbers of two digit each is 24 while the sum of these two no. is 102. What is the larger no?

Ans - 63

Q11)When 30% of one no. is added to another no the second no. increases by $\frac{1}{5}$ th. what is the ratio of the first no to the second no.

a)5:6 b)3:2 c)2:3 d)1:2 e)none of these

Q12)The difference between a two digit no and the no. obtained by interchanging the digits is 45. What is the difference between the digits of that no.?

a)4 b)5 c)6 d)7 e)none of these

Q13)If the difference between the digits of a two digit no is 3 and the product of the digits is 18, What is the sum of the digits of that no.?

a)8 b)9 c)7 d)6 e)none of these

MISCELLANOUS PROBLEMS

Q1) Find out the wrong number in the following given sequences?

- 51 64 24 75 14.75 78.75
a)51 b)64 c)24 d)75 e)none of these

Q2) The diameter of the driving wheel of the bus is 140cm. How many revolutions per minute must the wheel make in order to keep a speed of 132km/hr?

- b)300 c)400 d)500 e)none of these

Q3) Three persons A, B, C whose salaries together amount to Rs14400, spend 80, 85, 75 percent of their salaries respectively. If their savings are in the ratio 8:9:20 then find the ratio of their salaries.

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

Q4) How many words can be formed with the letters of the word PATLIPUTRA without changing the relative position of vowels and consonants?

- a)2160 b)3250 c)3230 d)3660 e)none of these

Q5) If the salary of a person is first decreased by 25% and then increased by 15%, what is % loss or gain

- a)13.75%loss b)12.75%gain c)10%loss d)10%gain e)none of these

Q6) 63, 45, 72 litres are to be drawn from three cans respectively. What is the exact capacity of measure which will do it most quickly?

- a)9lit b)7lit c)8lit d)11lit

Q7) Three integers a, b, c are such that $b/c = 3$. The fraction b/a is in its lowest form. Which of the following is the possible value of a ?

a) 180 b) 234 c) 104 d) 414

Q8) What is the least value of x , such that $85324x6$ is divisible by 11?

a) 2 b) 3 c) 1 d) 6

Q9) If $3a+5b/3a-5b = 5$, find $a:b$

a) 2:5 b) 5:2 c) 3:5 d) 5:3

Q10) A pressure cooker is sold for Rs1200/- . Sales tax amounts for $1/5$ th of this and profit $1/3$ rd of the remainder. Find the CP.

a) Rs740 b) Rs620 c) Rs640 d) Rs560

MISCELLANEOUS QUESTIONS

- Train A crosses another train B in 30 sec. the length of train B is 140% of the length of train A. the speed of train A is 72 km/h. what is the difference between the lengths of the two trains?ans:100 m
- Mr. Z spends 24% of his monthly income on food and 15% on the education of his children. he spends 25% of the remaining salary on entertainment and 20% on conveyance. he is now left with Rs 10376. what is the salary of Mr. Z?ans:Rs 32000
- The average marks secured by Ankit in maths, science and English are 70 and that in history and English are 60. what are his avg. marks in maths and science?ans: cannot be determined
- The difference between a 2 digit number and the number obtained by interchanging the positions of its digits is 36. the digit at units place is $1/3$ rd of the digit at ten's place in the original number. what is the original number?ans:62.
- In each of the following questions two equations I and II are given. you are required to solve both the equations and give answers
(1) if $a < b$ (2) if $a > b$ (3) if $a = b$ (4) if $a < = b$
(5) if $a = b$

a) I. $a^2=4$ II. $4b^2-24b+1=0$

ans. 1

b) I. $6a^2-5a+1=0$ II. $20b^2-9b+1=0$

ans.2

c) I. $5a+7a+2=0$ II. $8b+30b+25=0$

ans.2

- manoj invested an amount of Rs 50000 to start a software business. after six months Madhu joined him with an amount of Rs 80000. at the end of three years they earned a profit of Rs 24500. what is the share of Manoj in the profit?ans: Rs 10500.
- if the cost of gardening is Rs 85 per square meter then what will be the cost of gardening 1.4 metre wide strip inside around a circular field having an area of 1386 sq.m?ans.Rs 15184.40
- the ratio between the incomes of Satish and Manoj was 7:8 respectively. the income of Satish increased by 20% and that of Manoj was decreased by 10%. what will be the new ratio between their incomes?ans:7:6
- avg. of five consecutive odd nos. is 61. what is the difference between the highest and lowest no.?ans:8
- the difference between a two digit no. and the no. obtained by interchanging the digits is 9. what is the difference between the two digits of the no.?ans:1
- a circle and a rectangle have same perimeter. the sides of the rectangle are 18 cms and 26 cms. what is the area of circle?ans:616 sq. cm.
- N number of persons decide to raise Rs 3 lacs by equal contributions from each. had they contributed Rs 50 extra, the contribution would have been Rs 3.25 lacs. how many persons are there?ans. 500
- the difference between a number and its three is 50.what is the number?ans. 125
- a tank is filled in 5 hours by three pipes A, B and C. the pipe C is twice as fast as B and B is twice as fast as A. how much time will pipe A alone take to fill the tank?ans: 35 hrs
- milk contains 5% water. what quantity of pure milk should be added to 10 ltrs of milk to reduce this to 2%?ans 15 ltrs
- starting with the initial speed of 30 km/h, the speed is increased by 4 km/h every two hours. how many hours will it take to cover a distance of 288 km?ans:8 hrs
- with a uniform speed, a car covers the distance in 8 hours. had the speed been increased by 4 km/h, the same distance could have been covered in 7.5 hrs. what is the distance covered?ans.480 km
- if $2a-b=33$, $b+2c=1$ and $a+3c=1$, then what is the value of $(a+b+c)$? ans:34
- if 40% of a no. is equal to $\frac{3}{7}$ of other no. and sum of these nos. is 145. which is the larger number?ans: 75
- the area of a circular field is equal to the area of a rectangular field. the ratio of the length and the breadth of the rectangular field is 14:11respectively and perimeter is 100 m. what is the diameter of the circular field?ans.28 m
- in how many ways can the letters of the word CAPITAL be arranged in such a way that all the vowels always come together?ans 360

- for what value of x the inequality $2x^2+5x<3$ is satisfied?ans.- $3<x<1/2$
- what will come in place of the question mark(?) in the following equation-
(185% of 240) / (? x 6)=666

ans.4

questions

1. A train runs at the rate of 45 kmph. What is its speed in metres per second?
2. Two trains start at the same time from two stations and proceed towards each other at the rates of 20 kmph and 25 kmph respectively. When they meet, it is found that one train travelled 80 km more than the other. Find the distance between the two stations?
3. A motor car does a journey in 10 hours, the first half at 21 kmph, and the rest at 24 kmph. Find the distance?
4. Two men start together to walk a certain distance, one at $3\frac{3}{4}$ km an hour and the other at 3 kmph. The former arrives half an hour before the latter. Find the distance?
5. What is the length of the bridge which a man riding 15 kmph can cross in 5 minutes?
6. How long will a train 60 m long travelling at a speed of 40 kmph take to pass through a station whose platform is 90 m long?
7. How many seconds will a train 60 m in length, travelling at the rate of 42 kmph, take to pass another train 84 m long, proceeding in the same direction at the rate of 30 kmph?
8. A train takes 5 secs to pass an electric pole. If the length of the train is 120 mts, How much time will it take to cross a railway platform the length which is 180 metres ?
9. Two trains are running in opposite directions with speeds of 62 kmph and 40 kmph respectively. If length of one train is 250 mts and they cross each other in 18 secs. Find the length of the other train?

10. If a man's rate with the current is 12 kmph and the rate of the current is 1.5 kmph. Find the man's rate against the current?
11. A boat goes 40 km upstream in 8 hours and 36 km downstream in 6 hours. Find the speed of the boat in still water?
12. A can row a certain distance downstream in 6 hours and return the same distance in 9 hours. If the stream flows at the rate of $2\frac{1}{4}$ kmph, find the speed of A in still water?
13. During one year, the population of a locality increases by 5% but during the next year, it decreases by 5%. If the population at the end of the second year was 7980, find the population at the beginning of the first year?
14. If A's salary is 25% more than that of B, then how much percent is B's salary less than that of A?
15. The number of seats in a cinema hall is increased by 25%. The price on a ticket is also increased by 10%. What is the effect on the revenue collected?
16. A candidate who gets 30% of the marks in a test fails by 50 marks. Another candidate who gets 320 marks fails by 30 marks. Find the maximum marks?
17. A man sells two watches for Rs. 99 each. On one he gained 10% and on the other he lost 10%. Find his gain or loss percent?
18. The cost price of 16 articles is equal to the selling price of 12 articles. Find the gain or loss percent?
19. A shopkeeper marks his goods 20% above cost price, but allows 10% discount for cash. Find the percentage profit?
20. A dishonest dealer professes to sell his goods at a profit of 20% and also weighs 800 grams in place of a kg. Find his actual gain%?

21. I sold a book at a profit of 7%. Had I sold it for Rs. 7.50 more, 22% would have been gained. Find the cost price?

22. If goods be purchased for Rs. 450, and one-third be sold at a loss of 10%, at what gain percent should the remainder be sold so as to gain 20% on the whole transaction?

23. A tradesman marks his goods at 25% above his cost price and allows purchasers a discount of $12\frac{1}{2}$ % for cash. What profit % does he make?

24. Manju sells an article to Anju at a profit of 25%. Anju sells it to Sonia at a gain of 10% and Sonia sells to Bobby at a profit of 5%. If Sonia sells it for Rs. 231, find the cost price at which Manju bought the article?

25. A man buys a shirt and a trouser for Rs. 371. If the trouser costs 12% more than the shirt, Find the cost of the shirt?

26. Manish travels a certain distance by car at the rate of 12 kmph and walks back at the rate of 3kmph. The whole journey took 5 hours. What is the distance he covered on the car?

27. Two trains A and B start simultaneously in the opposite direction from two points A and B arrive at their destinations 9 and 4 hours respectively after their meeting each other. At what rate does the second train B travel if the first train travels at 80 kmph?

28. A train requires 7 seconds to pass a pole while it requires 25 seconds to cross a stationary train which is 378 mts long. Find the speed of the train?

29. A and B travel the same distance at the rate of 8 km and 10 km an hour respectively. If A takes 30 minutes longer than B, the distance travelled by B is?