



		veight of the er of boys in to (B) 4		up by 1 kg. Find inally. (D) 7	
•	matches i	s 40. In the n	ext 10 match 13 runs. F	batsman in 20 les, the batsman ind his average (D) 30	
•	particular mark in th the avera	exam is 80. nat exam is 40 ge mark of	If 5 students 0 are shifted the remainin dents who wr	of a class in a whose average to another class g would be 90 ote the exam. (D) 35	
•	was calcul were wron 77, the act	ated as 20. Bugly recorded a	ut as the mark as 70 and 85 yould be 2 ma	tudents of a class is of two students instead of 60 and irks less. Find the im. (D) 10	

The average weight of a group of boys is 30 kg.
 After a boy of weight 35 kg joins the group, the

Zighnound. The average weight of a group of boys is 30 kg. After a boy of weight 35 kg joins the group, the average weight of the group goes up by 1 kg. Find the number of boys in the group originally. (A) 5 (B) 4 (C) 6 The average runs scored by a batsman in 20 matches is 40. In the next 10 matches, the batsman scored an average of 13 runs. Find his average score in all the 30 matches (A) 31 (B) 29 (C) 28 (D) 30 . The average mark of the students of a class in a particular exam is 80. If 5 students whose average mark in that exam is 40 are shifted to another class -13=80-2ne the average mark of the remaining would be 90. Find the number of students who wrote the exam. (A) 20 (B) 25 (C) 30 In an exam, the average mark of the students of a class. was calculated as 20. But as the marks of two students 3x=93 were wrongly recorded as 70 and 85 instead of 60 and 77, the actual average would be 2 marks less. Find the number of students who wrote the exam. (A) 11 (B) 12 (C) 9 (D) 10

Delevitte

(A) 5 (B) 4

score in all the 30 matches

 The average weight of a group of boys is 30 kg. After a boy of weight 35 kg joins the group, the average weight of the group goes up by 1 kg. Find the number of boys in the group originally.

 The average runs scored by a batsman in 20 matches is 40. In the next 10 matches, the batsman scored an average of 13 runs. Find his average

(C) 6

(A) 31 (B) 29 (C) 28 (D) 30
 The average mark of the students of a class in a particular exam is 80. If 5 students whose average

mark in that exam is 40 are shifted to another class the average mark of the remaining would be 90. Find the number of students who wrote the exam.

(A) 20 (B) 25 (C) 30 (D) 35

 In an exam, the average mark of the students of a class was calculated as 20. But as the marks of two students were wrongly recorded as 70 and 85 instead of 60 and 77, the actual average would be 2 marks less. Find the number of students who wrote the exam.

(A) 11 (B) 12 (C) 9 (D) 10

3-43 ay x-5=20

Dedente

The average weight of a group of boys is 30 kg. After a boy of weight 35 kg joins the group, the average weight of the group goes up by 1 kg. Find the number of boys in the group originally.
 (A) 5
 (B) 4
 (C) 6
 (D) 7

 The average runs scored by a batsman in 20 matches is 40. In the next 10 matches, the batsman scored an average of 13 runs. Find his average score in all the 30 matches.

(A) 31 (B) 29 (C) 28 (D) 30

• The average mark of the students of a class in a

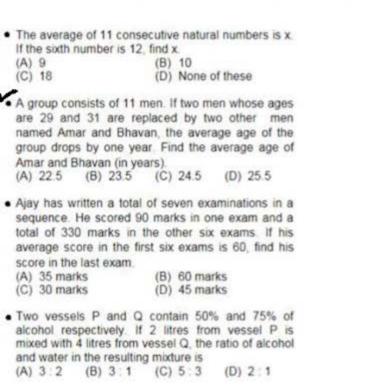
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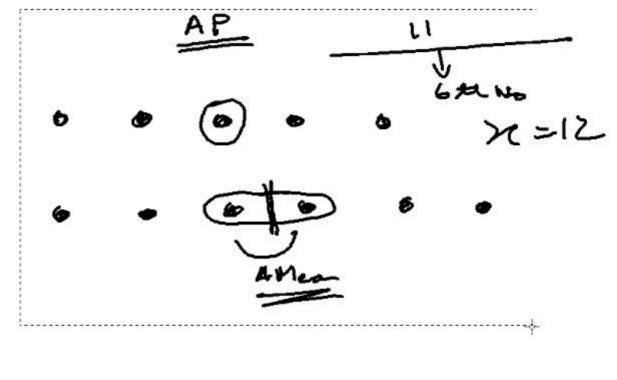
(A) 20 (B) 25 (C) 30 (D) 35

 In an exam, the average mark of the students of a class was calculated as 20. But as the marks of two students were wrongly recorded as 70 and 85 instead of 60 and 77, the actual average would be 2 marks less. Find the number of students who wrote the exam.
 (A) 11
 (B) 12
 (C) 9
 (D) 10 V70

9 rtid

If the sixth number is	
(A) 9 (C) 18	(B) 10 (D) None of these
are 29 and 31 are named Amar and B group drops by one Amar and Bhavan (ir	11 men. If two men whose ages replaced by two other men havan, the average age of the year. Find the average age of years). 5 (C) 24.5 (D) 25.5
sequence. He score total of 330 marks	otal of seven examinations in a d 90 marks in one exam and a in the other six exams. If his e first six exams is 60, find his m.
(A) 35 marks (C) 30 marks	(B) 60 marks (D) 45 marks
alcohol respectively mixed with 4 litres fro and water in the resu	I Q contain 50% and 75% of If 2 litres from vessel P is om vessel Q, the ratio of alcohol alting mixture is 1 (C) 5:3 (D) 2:1





The average of 11 consecutive natural numbers is x. If the sixth number is 12, find x.

(A) 9

(B) 10

(C) 18

A group consists of 11 men. If two men whose ages are 29 and 31 are replaced by two other men named Amar and Bhavan, the average age of the group drops by one year. Find the average age of Amar and Bhavan (in years).

(A) 22 5

(B) 23.5

(C) 24.5

(D) 25.5

orough drops by one year. Find the average age of Amar and Bhavan (in years).
 (A) 22 5 (B) 23.5 (C) 24.5 (D) 25.5

 Ajay has written a total of seven examinations in a sequence. He scored 90 marks in one exam and a total of 330 marks in the other six exams. If his average score in the first six exams is 60, find his

score in the last exam.
(A) 35 marks

(A) 3 2 (B) 3 1 (C) 5 3

(C) 30 marks
 (D) 45 marks

Two vessels P and Q contain 50% and 75% of alcohol respectively. If 2 litres from vessel P is mixed with 4 litres from vessel Q, the ratio of alcohol and water in the resulting mixture is

(B) 60 marks

×29 -> 1 31 -> 2

360

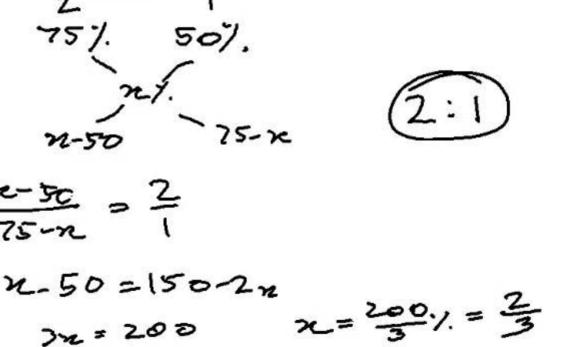
If the sixth number is 12, find x. 10 (D) None of these A group consists of 11 men. If two men whose ages are 29 and 31 are replaced by two other men named Amar and Bhavan, the average age of the

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Amar and Bhavan (in years). (A) 22.5 (B) 23.5 (C) 24.5 · Alay has written a total of seven examinations in a sequence. He scored 90 marks in one exam and a total of 330 marks in the other six exams. If his average score in the first six exams is 60, find his score in the last exam. (A) 35 marks (B) 60 marks (C) 30 marks (D) 45 marks . Two vessels P and Q contain 50% and 75% of alcohol respectively. If 2 litres from vessel P is mixed with 4 litres from vessel Q, the ratio of alcohol and water in the resulting mixture is (A) 3 2 (B) 3 1 (C) 5 3

and water in the resulting mixture is



Find togeth and B	student ige wei the a her give d are in 14.5 kg	ghts of verage en that the rati	weighthe o 9	kg and ght of studen 1.	45 k both ts in 1	g resp the the se	sective sections	ily.
• In w								ine
so th	nat a 60	% wine	solut	ion is f	ormed	?		
(A)	7:6	(B) 2	3	(C) 5	5 4	(D)	1 3	
the	xture of er. How mixture	many l	itres	of wate	r shou	ild be	added	to

(A) 2 (B) 3 (C) 4 (D) 5

Two solutions A and B having 30% milk and 80% milk are mixed to form a mixture which contains 50% milk.
 Find the ratio of the quantities of A and B mixed.
 (A) 4:1
 (B) 3:5
 (C) 5:2
 (D) 3:2

 Two varieties of rice A and B priced at ₹6.75 per kg and ₹9.75 per kg respectively were mixed and sold at ₹10.80 per kg at a profit of 20%. Find the ratio in which A and B are mixed.

(A) 1:4 (B) 1:3 (C) 1:2 (D) 1:5

 The students of section A and section B have average weights of 30 kg and 45 kg respectively.
 Find the average weight of both the sections together given that the students in the sections A and B are in the ratio 9 1
 (A) 34.5 kg (B) 33 kg (C) 31.5 kg (D) 36 kg

- In what ratio should water be mixed with 80% wine
 - so that a 60% wine solution is formed?
 (A) 7 6 (B) 2 3 (C) 5 4 (D) 1 3
- A mixture of 70 litres of milk and water contains 10% water. How many litres of water should be added to the mixture so that the resulting mixture contains 12½% water?
- (A) 2
 (B) 3
 (C) 4
 (D) 5
 Two solutions A and B having 30% milk and 80% milk are mixed to form a mixture which contains 50% milk.
- Find the ratio of the quantities of A and B mixed.

 (A) 4 : 1 (B) 3 : 5 (C) 5 : 2 (D) 3 : 2

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 (A) 1.4
 (B) 1.3
 (C) 1.2
 (D) 1.5

70 100%. 10%.

250 = 302 > x = 20 37.5 = 302 > x = 20 The students of section A and section B have average weights of 30 kg and 45 kg respectively. Find the average weight of both the sections together given that the students in the sections A and B are in the ratio 9 1 (A) 34 5 kg (B) 33 kg (C) 31 5 kg (D) 36 kg

In what ratio should water be mixed with 80% wine so that a 60% wine solution is formed? (C) 5 4

- A mixture of 70 litres of milk and water contains 10% water. How many litres of water should be added to the mixture so that the resulting mixture contains 121/5% water?
- (C) 4
- . Two solutions A and B having 30% milk and 80% milk are mixed to form a mixture which contains 50% milk Find the ratio of the quantities of A and B mixed. (A) 4 1 (B) 3 5 (C) 5 2 (D) 3 2
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(B) 1:3

(C) 1 2

a: 6=3:2

 The students of section A and section B have average weights of 30 kg and 45 kg respectively. Find the average weight of both the sections together given that the students in the sections A and B are in the ratio 9:1. (A) 34.5 kg (B) 33 kg (C) 31.5 kg (D) 36 kg In what ratio should water be mixed with 80% wine so that a 60% wine solution is formed? A mixture of 70 litres of milk and water contains 10% water. How many litres of water should be added to the mixture so that the resulting mixture contains 121/2% water? (C) 4 (D) 5 Two solutions A and B having 30% milk and 80% milk are mixed to form a mixture which contains 50% milk. Find the ratio of the quantities of A and B mixed. (A) 4:1 (B) 3:5 (C) 5:2 (D) 3:2 Two varieties of rice A and B priced at ₹6.75 per kg and ₹9.75 per kg respectively were mixed and sold at ₹10.80 per kg at a profit of 20%. Find the ratio in

(C) 1:2

which A and B are mixed

SP=10.80/4 -> 20% Px 126%. of CP = 1080

•	In what		t r	ratio should		ould	a variety		of rice		costing		
	₹6	per	kg	be	mi	ced	with	anot	her	VE	ariety	of i	rice
	COS	sting	₹8	75	per	kg	to	obtain	a	mi	xture	cost	ting
	₹7.50 per kg.												

(A) 8:9 (B) 3:4 (C) 7:8 (D) 5:6

 The ace leg spinner Bhayanak Singh Bedi had 1200 runs taken of him in a certain number of matches. In the next match he took 4 wickets conceding 144 runs as a result of which his average (runs conceded / number of wickets taken) increased by 1. How many wickets did he take (in the matches considered) before the last match?
 (A) 40
 (B) 48
 (C) 60
 (D) 77

(A) 40 (B) 48 (C) 60 (D) 77

 The average marks obtained by 40 students of a class is 85. The difference between the marks obtained by the students who got the highest mark and the lowest mark is 108. If both these students are removed, the average falls by 1 mark. Find the highest mark.

(A) 144

(B) 158

(C) 172

(D) Cannot be determined

- . In what ratio should a variety of rice costing ₹6 per kg be mixed with another variety of rice costing ₹8.75 per kg to obtain a mixture costing ₹7.50 per kg.
 - (A) 8 9 (B) 3 4 (C) 7 8 (D) 5 6

The ace leg spinner Bhayanak Singh Bedi had 1200 runs taken of him in a certain number of matches. In the next match he too? 4 wickets conceding 144 runs as a result of which his average (runs conceded / number of wickets taken) increased by 1. How many wickets did he take (in the matches considered) before the last match?

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(A) 144

(D) Cannot be determined (C) 172

- In what ratio should a variety of rice costing 76 per kg be mixed with another variety of rice costing 78.75 per kg to obtain a mixture costing 77.50 per kg.
- (A) 8 9 (B) 3 4 (C) 7 8 (D) 5

The ace leg spinner Bhayanak Singh Bedi had 1200 runs taken of him in a certain number of matches. In the next match he took 4 wickets conceding 144 runs as a result of which his average (runs conceded / number of wickets taken) increased by 1. How many wickets did he take (in the matches considered) before the last match?

(A) 40 (B) 48 (C) 60 (D) 77

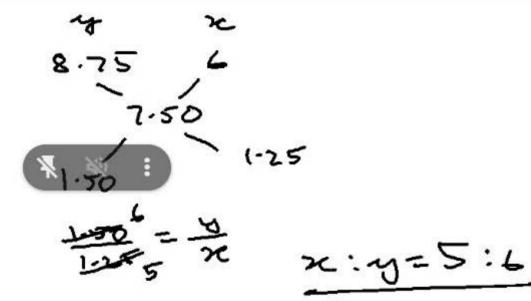
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(A) 144

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No of moleon [Im]

Total Puny: -1200 Runs: -144
$$\frac{1200}{20} + 1 = \frac{1344}{204}$$

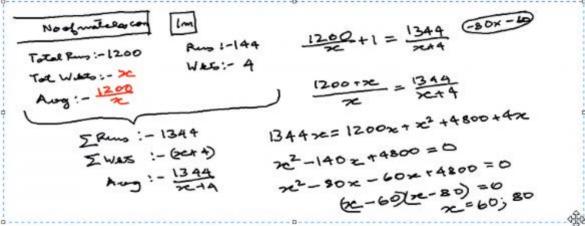
Tot White: - $\frac{1200}{2}$

Awg: - $\frac{1200}{2}$
 $\frac{120072}{2} = \frac{1344}{200}$
 $\frac{1344}{2} = \frac{1344}{200} = \frac{1344}{200}$

Awg: - $\frac{1344}{200}$

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Awg: - $\frac{1344}{200}$
 $\frac{1344}{20$



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(A) 144 (B) 158 (C) 172 (D) Cannot be determined Total chair = 32m =208

x + (e-108) = 208 22=316

z= 158/

average after 17 innings?

The average marks of 55 students in an exam is 88. If the top 5 rankers are removed, the average drops by 5 marks. The 2nd highest marks < 136. If the marks of all the students are a) integral, and b)

Manoj scores 87 runs in his 17th inning, and as a result increased his batting average by 3. Find his

3) The average marks got by 45 students is 80. The difference between the 1st and the last ranker is 99. If both of them are not considered in the total, the average falls by 1 mark. What marks did the 1st student get?

integral and distinct, find the least possible marks of the topper?

What was the volume of the original solution?

- 4) A mixture of 70 lit of milk and water contains 10% water. How many lit of water should be added to the mixture so that it contains 12.5% water?
- 5) 2 vessels contain mixtures of milk and water in the ratio of 4 : 9 and 2 : 7. In what ratio should the contents of the vessels be mixed so that the resultant mixture has a milk and water ratio of 2 : 5 ?

6) 68 lit of milk was added to a 3:7 milk and water solution. The resultant milk and water ratio is 7:5.

- 7) I purchase 3 kg of cake from Sugar & Spice at Rs 900. I sell 1/3 rd of it at a profit of 30%, and the rest at a loss of 12%. What was my overall profit or loss %?
- 8) A trader purchased 2 TVs for a total of Rs 35,000. He sold one at 30% profit and the other at 40% profit. His overall profit is 32%. What is the difference in the CP of the 2 TVs?

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16+1=17mx3=

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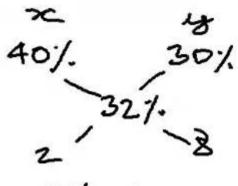
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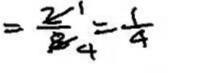
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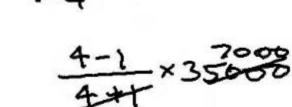
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والمحادث

- 9) Goods are purchased at Rs 450, and 1/3rd is sold at a loss of 10%. At what %age profit or loss should the remainder be sold so as to make an overall profit of 20%?
- 10) Rs 6,000 is lent out in two parts, one @ 7% p.a. SI, and the other @ 10% p.a. SI. The total interest after 1 yr is Rs 450. What are the amounts lent?
 - 11) A person covers 800 km partly @ 50 km/hr and rest @ 150 km/hr in 10 hrs overall. What is the distance covered @ 150 km/hr ?
 - 12) A total of 320 toffees were distributed among 120 boys and girls, so that each boy gets 2 and each girl 3 toffees. Find the no of boys and girls?
 - 13) 2 kinds of rice are mixed in the ratio of 2:3, and sold @ Rs 22/kg, resulting in 10% profit. If the CP of the 1st rice is Rs 14/kg, what what is the CP/kg of the other?
 - 14) A vessel of capacity 90 lit is fully filled with pure milk. 9 lit is removed and replaced with water. This process is repeated another time. Find the quantity of pure milk left in the solution?

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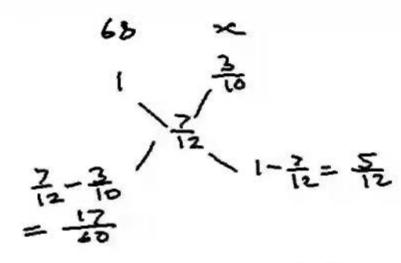
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4=30-x 2=6 x=27.

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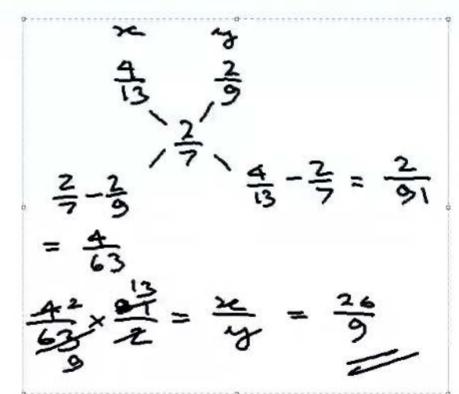


10



- 1) Manoj scores 87 runs in his 17th inning, and as a result increased his batting average by 3. Find his average after 17 innings?
- 2) The average marks of 55 students in an exam is 88. If the top 5 rankers are removed, the average drops by 5 marks. The 2nd highest marks < 136. If the marks of all the students are a) integral, and b) integral and distinct, find the least possible marks of the topper?</p>
- 3) The average marks got by 45 students is 80. The difference between the 1st and the last ranker is 99. If both of them are not considered in the total, the average falls by 1 mark. What marks did the 1st student get?
- 4) A mixture of 70 lit of milk and water contains 10% water. How many lit of water should be added to the mixture so that it contains 12.5% water?
- 5) 2 vessels contain mixtures of milk and water in the ratio of 4: 9 and 2: 7. In what ratio should the contents of the vessels be mixed so that the resultant mixture has a milk and water ratio of 2: 5?
- 6) 68 lit of milk was added to a 3 : 7 milk and water solution. The resultant milk and water ratio is 7 : 5.

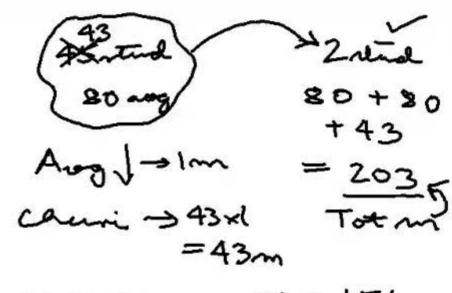
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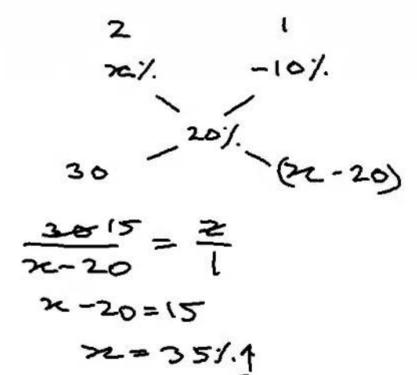
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- 9) Goods are purchased at Rs 450, and 1/3rd is sold at a loss of 10%. At what %age profit or loss should the remainder be sold so as to make an overall profit of 20%?
- 10) Rs 6,000 is lent out in two parts, one @ 7% p.a. SI, and the other @ 10% p.a. SI. The total interest after 1 yr is Rs 450. What are the amounts lent?
- 11) A person covers 800 km partly @ 50 km/hr and rest @ 150 km/hr in 10 hrs overall. What is the distance covered @ 150 km/hr?
- 12) A total of 320 toffees were distributed among 120 boys and girls, so that each boy gets 2 and each girl 3 toffees. Find the no of boys and girls?
- 13) 2 kinds of rice are mixed in the ratio of 2:3, and sold @ Rs 22/kg, resulting in 10% profit. If the CP of the 1st rice is Rs 14/kg, what what is the CP/kg of the other?
- 14) A vessel of capacity 90 lit is fully filled with pure milk. 9 lit is removed and replaced with water. This process is repeated another time. Find the quantity of pure milk left in the solution?



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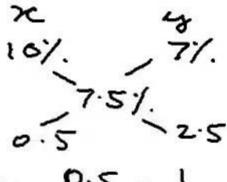
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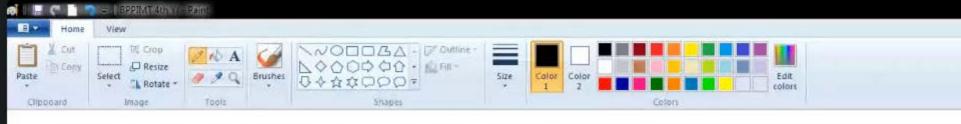


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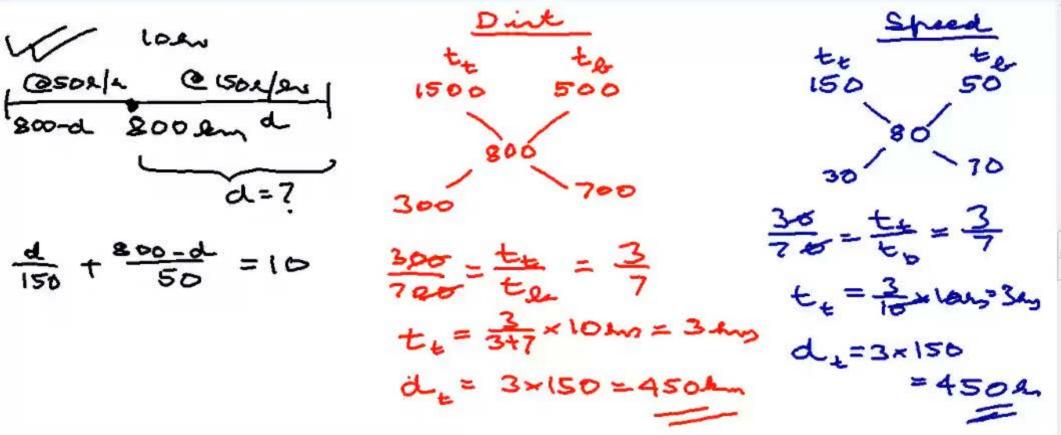


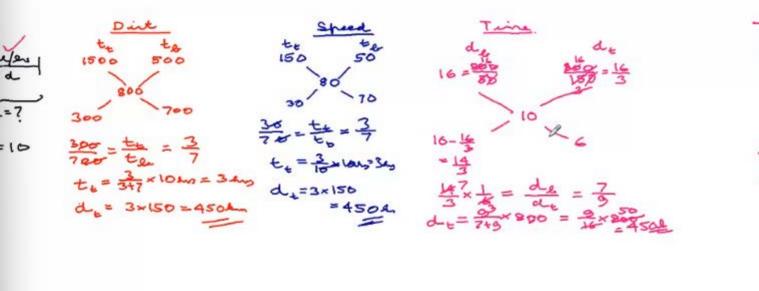
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