Time Speed & Distance

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Contract of Contra		
Q.	Two cars starts from A to B coat 30 kmph which starts 12 h	rs later & reached 27 befor
\rightarrow	time, x speed, = $time_{x}$ x x 20 = y	
	(y+1.5+2.5)20=9	× 30
	y=8	
	d= timexspeed	
	$= 30 \times 8$ $d = 240 \times m$	
Q,		neerut at fam. reach 100,m
	Train B starts from meant to at what time they meet ear	ch attack? (delhimeerut=200ti
\rightarrow		1 Sa = 200 = 50 kmph
	4	4
	SB = 200 = 400 kmhr≈58kmhr.	:Sp = 200 = 400 kmphz
ž.	Delhi 200 km	$1 d_1 + d_2 = d_2$
	As A starts 2 brs early	$50 \times 2 + (400)(2-2) = 200$
	it covers lookm in 2 hrs.	
	Now to cover remaining	2 = 2200 ≈ 2.56 hrs
	distance lets say one train stationary then relative	time = 8.56 am.
	Speed is the speed and distance	Time - 2,30 cmi
	is lookm,	
	: time = 100 = 100 = 0.92	
<u>,</u>	: total time 2 hrs + 0.92 hrs	
1	time 2.56 hrs after 8 am.	· · · · · · · · · · · · · · · · · · ·
	8.56 am.	
di sanutzi		

Q. Train T, & To Starts from Ahmodabad & mubumai riQ: and reaches mumbai Ahmodabad at 12 am and 1 at what time they meet?

relative speed = d + d = 11d 30

time = distance = $\frac{d}{s} \approx 2.82 \approx 2.43 \text{ hrs}$

time = 9:43 am

Q tiger is 50 leap behind deer, tiger takes 5 leaps/min deer takes 4 leap/min, tiger deer covers 8 m 85 r per leap at what distance tiger run to catch de St = 5x8 = 2 m/sec (1/2)x (2+50x8) = (1/2)(2)

 $Sd = \frac{4x5}{60} = \frac{1}{3}$ m/sec 2 = 300m

time is constant

Q. If train travels at 144 kmphr and lookmhr then reach as ahead, 24 min behind schedules what is avg there reach on schedule?

Let take difference of times taken each time.

t1 - t2 = st

 $\frac{d}{100} - \frac{d}{144} = \frac{44}{60}$

d = 240 km

time taken by train with lookinhr is

time = d = 240 = 2.40 = 2:24 hrs

The remaining 24 min is entra taken by train her sheduled time is 2 his then speed to cover 240 in 2 hrs 1s

speed = 120 kmphr

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	Train p and g starts from 7am & 8am from distance of 110 km apart with 20 kmhr & 25 kmhr resp. at what time they meet? $d_1 + d_2 = d$ $\chi(20) + (\pi-1)\times25 = 110$ $\chi(20) = 110$
	Yang and Gupta leaves X and Y towards Y and X after meeting each other they reach after 49ars and I hours If speed of Yana is 48 km hr what is speed of Gupta As Both starts at same time and meet each other, time taken by both is equal.

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: speed = $\frac{2m}{2h-1}$

Q. Train overtake two men with 4.5 kmhr. 5.4 km/hm
in 8.4 8.8.5 seconds what is the speed of train

distance is same i.e length of train, distant
travelled by person neglected when we take
relative speed as they assume to be station

 $\frac{(8.4)(5_{t}-4.5)}{18/5} = \frac{(8.5)(5t-5.4)}{18/5}$

5t = 81 km/hr

Q. P.Q.R in race, P cycles twice speed of Q. R cycles of Q if R complete race in 45 min where is Q when P finishes race?

-) [at centre

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Q. A, B wolks from delhi & Jammu after meeting in Somewhere reaches to destinations after 361 & 289 h resp. what is the ratio of speeds of A: B?

If two bodies stort moving toward each other at same time finishes distance (same) in x and his after crossing then, ratio of their speed is $\frac{SA}{SR} = \frac{17}{18}$

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7	Ramesh runs at 7mls to catch thief which is at 80m running with 5mls how much distance thirt marplus before ramesh catch him? Relative Speed (2 mls) when we take take relative speed we assume one object is stationary time to carch = 80 m = 40 sec 2 mls [In 40 sec theif runs (40 x5) = 200 mg.]	
· Ø. 4	Ajay reach B travel back and meet Vijay at C	
	distance or B-C? when A to B is 72m.	
	time taken is constant 72 x	
,	71/2+21/21/21	
	- 19 17 ABC = 72+2	
	AC = 72-2	
3		
Q.	squirrel climbs 5m in min and in next min it slips 2m	
· ·	how much time It will take to reach a 6 m?	
->		
	for first 21 m it takes 14 min.	
	at last climb it will reach 1 min to 26 m.	
10.1	total time 15 min	
Q.	If car travells and overtaices two bikers who are out of kmbr & g kmbr in g and lose what is speed of car?	
\longrightarrow	Let x is length of car here distance is constant	
	t1 x S1 = t2 x S2	
	9 (carspeed -6) = 10 (speed -9)	
	Carspeed = 66 km/hx	
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Q.	cab overtake auto at Ilam reaches Benglore at 1.30 pr take rest for I hour and return meet auto at 3 pm how much time auto will take to reach Benglore? overtake A C B
	cab cover x distance in (1.30-11) = 2.5 hrs Cabspect cab take rest till 2.30 pm and cross back auto at 8 pm means in (3 pm-2.30 pm) = 2.5 hrs cab will get ball to distance = (0.5) x (x) = 2 distance. Auto have to eover (2/5) distance now. But Auto has covered (4x) distance in 4 hrs i.e. (3 pam-11 am) : speed of auto (5x9) = 2 distance. Auto will cover 2 distance at 2 speed in 1 hrs. Auto will reach at 4 pm
Q,	If once travel 4 kmphr for 45 min take break for 15 how much time require to reach 12 km. In 45 min he travels 3 km. to travel 12 km he have session of 4 pt 45 m. and three breaks not 4 breaks (45x4 + 15x3) mins [3hours 45 min]
⇔	speed of man with current 15 speed of current 2.5 what is speed against current? water current Relative speed against = 10 current.