5. Time, Speed and Distance1. Convert 55 m/sec into km/h.a. 198 kmph

1. Convert 55 m/sec into km/h. a. 198 kmph	b. 11 kmph		c. 15 5/18 kmph		d.19 kmph	
2. A man covers 10.2 km in 3 h a. 18 km	rs, the distance covered by h b. 15 km	nim in 5 hrs is	c. 16 km		d. 17 km	
3. A person travels from P to Q a. 36 kmph	at a speed of 40 kmph and i	returns by increasino	g his speed by 50%. c. 48 kmph	What is his average	speed for both the tri d. 50 kmph	ips?
4. An express train travelled at an average speed of 100 kmph, stopping for 3 r 600 km from the starting point? a. 6 hrs 21' b. 6 hrs 24'			inutes after every 7 c. 6 hrs		take to reach its destination d. 6 hrs 30'	
5. A train can travel 50% faster way, however the train lost about	ut 12.5 minutes while stoppin		e speed of the car is			me. On the
a.100 kmph	b.110 kmph		c.120 kmph		d.180 kmph	
6. In covering a distance of 30 I speed is	km, Abhay takes 2 hrs more .5 kmph	than Sameer. If Abh b.6 kmph	ay doubles his spee c. 6.25 k		e 1 hr less than Sam d. 7.5 kmph	eer. Abhay
7. In a flight of 600 km, an aircr increased by 30 minutes. The de		bad weather. Its ave a. 1 hr	rage speed for the t	rip was reduced by 2 c. 3 hrs	00 kmph and the tim d. 4 hrs	e of flight
8. If the distance travelled (d) by the particle in the 5 th second?	a particle in time t in second	ds is given by the for a. 72 meters	mula $d(t) = 4 + 3$ b. 82 meters	$t + 2t^2 + t^3$, then v c. 90 meters	what is the distance t d. 83 meters	ravelled by
9. If I walk with 30 miles/hr, I re exact time of reaching the destir a. 80 miles & 20 m/hr		speed with which I s			d. 80 miles & 24 m/	
10. By walking at 3/4th of his us a.30 min	ual speed, a man reaches of b. 60 min	ffice 20 minutes late	r than usual. What is c. 70 min	s his usual time?	d. 50 min	
For Questions 11 to 16: A train	n 110 m long travels at 60 l	kmph. How long do	es it take?			
11. To pass a telegraph post by	_		a. 6.5 sec	b. 6.6 sec	c. 6.7 sec	d. 6.8 sec
12. To pass a man running at 6	kmph in the same direction a	as the train?	a. 6 1/3 sec	b. 7 1/3 sec	c. 8 1/3 sec	d. 9 sec
13. To pass a man running at 6	kmph in the opposite direction	on?	a. 6 sec	b. 7 sec	c. 8 sec	d. 9 sec
14. To pass a station platform 2	40 m long?		a. 21 sec	b. 20 sec	c. 19 sec	d. 18 sec
15. To pass another train 170 m	long, at 40 kmph in the sam	ne direction?	a. 50.4 sec	b. 50.3 sec	c. 50.1 sec	d. 50 sec
16. To pass another train 170 m	long, at 60 kmph in the opp	osite direction?	a. 8.0 sec	b. 8.2 sec	c. 8.4 sec	d. 8.8 sec
17. A ship travelled 8100 km fromuch distance will the plane over		a jet plane, whose s a. 10000 kms	peed is 10 times the b. 9900 kms	speed of the ship too c. 9743 kms	ok off from the port. A d. 9000 kms	After how
18. Train A crosses a pole in 20 a. 20 m/s b	seconds and crosses a trair . 10 m/s	n B of length 200 m i c. 15 m/s	n 20 seconds. Find d. 25 m/	•		
19. When I left home for office of day in the morning when my fath 5 minutes per hour, then the time a. 15' b	ner's watch showed 6:00 AM	l, my watch showed	7:30 AM. If my fathe	er's watch runs at non st		
20. Two cars, one moving towar that of the other by 5 km per hor a. 20 km/hr b			•	other. Find the spee	-	
21. I row from A to B against the a. 15 m/sec b	e current in 8 hrs and B to A . 18 m/sec	in 2 hrs. If the speed c. 22 m/sec	d of the river is 9 m/s d. 12 m/	•	d of the boat in still w	vater?
22. Two boats travel in opposite speed of the current is 2 kmph. a. 5 hrs b	•				still water is 10 kmp	h and the

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23. The speed of a a. 56 ¼ km	boat in still water is b. 60 km	12 kmph and the spe	eed of the current is c. 58 km	3 kmph. How far can d. 54 ¼ k		vel upstre	am and do	wnstream	10 hours?
24. A man can row a. 400 km	upstream 36 km in 6 b. 300 kn	hours. If the speed	of man in still water i c. 200 km	s 8 km/hr, find how r d. 100 km		an go dow	nstream in	10 hours	?
25. A man rows to stream. Find the rat	•	nt and back in 14 hou a. 1 km/hr	urs. He finds that he b. 2 km/hr	can row 4 km with th c. 3 km/hr	e stream i d. 4 km/h		e time as 3	3 km agair	nst the
		interval of 24 second n/s then what is the s	~	towards the gun he a. 25 m/s	ard the so b. 28 m/s	_	nfire at an c. 26 m/s		of 22 d. 30 m/s
_		00 m. A and B start so s respectively, then b c. 14	-				ırn after re	aching an	end. If the
		both are travelling to At what time will Nik c. 1:45 pm		eaches P at 9 am an	d starts or	n the return	n journey a	after one h	nour. On
		ng along a straight lin y's shadow after 40 s		e of a lamppost at a a. 130	speed of 1 b. 132.6	1.4 m/s. If	the lamp is c. 135	s 42 m abo	ove the d. 136.6
		turns around and sta e start of the cat's rur	• ,		oots him oi b. 225 se		er and star c. 260 se	_	the cat at d. 200 sec
		directions with a spe oird is 45 kmph then c. 200 km						y are sepa	arated by a
	•	A takes 30 steps to ne total number of ste		•	s 70 steps	to reach t a. 55	he top fror b. 42	n the botto c. 50	om. The d. 45
-		n escalator. Ramu ta ime taken by Raju to c. 120					-		
		nds that if she walks ue top. Find the number			re to reach	n the top a a. 100	nd if she v b. 125	valks up 4 c. 75	0 steps she d. 80
		n of an escalator whi r of steps in the esca		ls. B takes 30 steps t	to reach th	e top of th a. 45	e escalato b. 40	r. If A take c. 47	es 2 steps d. 50
		Roja, for every 10 ste d by Pooja in 8 steps c. Roja		elled by Roja in 7 ste		•		e travelle	d by Teja in
37. A takes 10 strid travel to overtake B		If one stride of A is 2 a. 280 m	m and one stride of b. 240 m	B is 2.5 m and B get c. 200 m	s a start o	f 35 m, the	en what dis	stance sho	ould A
38. In a 1000m race	e, A beats B by 50m	or 10 seconds. Find	the speed of A.	a. 5 m/s	b. 5 2/9 n	n/s	c. 5 5/19	m/s	d. 6 m/s
39. A, B & C participa. 30 m	pate in a 100m race. b. 25 m	A beats B by 20m a c. 22 m	nd B beats C by 10n d. 28 m	n. By how many mete	ers does A	beat C?			
40. In a 100 meters meters does A beat		10 meters behind B a a. 30	and beats B by 10 m b. 19	eters. If B starts from c. 18 2/11	10 meters d. 28 2/1		ne start lind	e then by	how many
		itya can run one fu start simultaneous			and Adv	aitha can	run one f	ull round	in 10
41. Find when they	would meet at the s	tarting point for the fi	rst time?		a. 30'	b. 45'	c. 60'	d. 75'	
42. Find when they	would meet for the f	irst time if they are ru	unning in the same d	irection?	a. 10'	b. 15'	c. 20'	d. 30'	
43 Find when they	would meet for the f	iret time if they are ru	inning in the apposit	e direction?	a 2'	h 3'30"	c 3'45"	d 4' 20"	

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44. Find how many times would they met in the time Advaitha has completed 12 rounds when running in the same direction?
a. 6
b. 11
c. 8
d. 12
45. Find how many times would they met in the time Advaitha has completed 12 rounds when running in the opposite direction?
a. 18
b. 60
c. 20
d. 32