## SPEED,TIME & DISTANCE

1.	If speed of 3 $\frac{1}{3}$ m/s is converted to km/h, then it would be						
	a) 8 km/h		c) 10 km/h		12 km/h		
2.	A car covers 3	300 km in 15 h.	Find the speed	of the car.			
	a) 20 km/h	b)25 km/h	=		24 km/h		
3.	A car covers a distance of 690 km in 30 h. What is the average speed of the car?						
	a) 25 km/h	b) 23km/h	c) 20 km/h	d) 1	8km/h		
4.	A bus is runni	ng with a unifo	rm speed of 37 l	km/h. What	distance	will be covered by bus in 8h?	
	a) 246km	b) 289 km	c) 296km	d) 2	276 km	e) None of the above	
5.	A bus covers a distance of 400 km with a speed of 20 km/h. What time is taken by the bus to cover						
	this distance.						
	a) 25 h	b) 5 h	c) 21 h	d) 2	20 h	e) None of the above	
6.	The speed of a	The speed of a bus is 72 km/h. The distance covered by the bus in 5 s is					
	a) 50 m	b) 74.5 m	c) 100 m	d) 6	60 m		
7.	A person ridin	A person riding a bike crosses a bridge with a speed of 54 km/h. What is the length of the bridge, if he					
	takes 4 min to	cross the bridg	e?				
	a) 3600 m	b) 2800 m	c) 3500 m	d) 4	1500 m	e) None of the above	
8.	=	_				er. The speeds of both persons	are
		_	vely. Find the sp			-	
	a) 6 km/h	b) 16 km/h	·	,		e) None of the above	
9.		=		_	pective sp	eeds of 9 km/h and 5 km/h. Fin	nd
	the relative speed of 1 <sup>st</sup> car with respect of 2 <sup>nd</sup> .						
	a) 2 km/h	b) 4 km/h	<i>'</i>			e) None of the above	
10.		A man covered a distance of 12 km in 90 min by cycle. How much distance will he cover in 3h, if he					
	· ·	at a uniform sp	•	1). (	N. 7. 1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
11	a) 36 km	*	,	,		e) None of the above	
11.		$\mathcal{C}$		*	4 km/h ai	nd another at 3km/h. The forme	er
			e latter. Find the				
12	a) 6 km	b) 9 km	c) 8km	d) 7 km	a af tha ar	eads of Atathat of Dis 2.7	Cim d
12.		Two trains $A$ and $B$ travel from points $X$ to $Y$ and the ratio of the speeds of $A$ to that of $B$ is $A$ : 7. Find the ratio of time taken by $A$ and $A$ to reach from $A$ to $A$ :					
	a) 2 : 5	-	c) 3 : 8		a) No	ne of the above	
13.	· ·	· ·		,			rest
10.	Aashutosh can cover a certain distance in 84 min by covering 2/3 <sup>rd</sup> of distance at 4 km/h and the rest at 5 km/h. Find the total distance.						
	a) 6 km	b) 8 km		d) 15 km	11) N	one of the above	
14.	,	,		· ·	,		nd
<b></b>	A man completes 30 km of a journey at 6 km/h and the remaining 40 km of the journey in 5 h. Find the average speed for the whole journey.						
			c) $7 \frac{1}{2}$ km/h	d) 8 km/h			
15	==		<del>-</del>		241 1' 4		.1. <i>.</i>
15.			ai a certain spee	a. 11 nait of	ine distai	nce is covered in double time, t	ne
	ratio of the two	<del>-</del>	a) 1 · 2	d) 2 · 1	م) 1 .	1	
4.	a) 4:1		c) 1:2				. •
<b>16.</b>	A bullock cart	nas to cover a	distance of 80 kg	m ın 10 h. l	I is cover	s half of the journey in $\frac{3}{5}$ the t	ime,

what should be its speed to cover the remaining distance in the left time?

	a) 5 km/h b) 10 km/h c) 15 km/h d) 18 km/h e) 20 km/h						
<b>17</b> .	Moving 6/7 of its usual speed a train is 10 min late. Find its usual time to cover the	e journey.					
	a) 25 min b) 15 min c) 35 min d) 60 min e) None of the above						
18.	Rani covers a certain distance by car driving at 5 km/h and returns the starting point riding on a						
	scooter at 2 km/h. Find her average speed for the whole journey.						
	a) $3\frac{6}{7}$ km/h b) $2\frac{6}{7}$ km/h c) $5\frac{6}{7}$ km/h d) $7\frac{6}{7}$ km/h e) None of the above	<b>;</b>					
19.							
	town $B$ to town $A$ at the speed of 52 km/h. What is the approximate average speed of the car?						
	a) 55 km/h b) 52 km/h c) 48 km/h d) 60 km/h e) None of the above						
20.	A car reached Raipur from Sonagarh in 35 min with an average speed of 69 km/h.	If the average					
	speed is increased by 36 km/h, how long will it take to cover the same distance?						
	a) 24 min b) 27 min c) 23 min d) 29 mim e) None of the above						
21.	A students walks from his house at $2\frac{1}{2}$ km/h and reaches his school late by 6 min.	Next day, he					
	increases his speed by 1 km/h and reaches 6 min before school time. How far is the school from his						
	house?						
	a) $\frac{5}{4}$ km b) $\frac{7}{4}$ km c) $\frac{9}{4}$ km d) $\frac{11}{4}$ km						
22.		min. He increases					
	his speed by 2km/h and reaches 6 min before. How far is the office from his house						
	a) 6 km b) 7km c) 12 km d) 16 km						
23.	A thief is noticed by a policeman from a distance of 200m. The thief starts runnin	g and the					
	policeman. Chases him. The thief and the policeman run at the rate of 10 km/h and	111 km/h,					
	respectively. The distance between them after 6 min will be						
	a) 100 m b) 180 m c) 150 m d) 125 m						
24.	A person can walk a certain distance and drive back in 6 h. He can also walk both	ways in 10 h. How					
	much time will he take to drive both ways?						
	a) 2 h b) $2\frac{1}{2}$ h c) $5\frac{1}{2}$ h d) 4 h						
25.	Two men $A$ and $B$ travel from point $P$ to $Q$ , a distance of 84 km at 12 km/h and 16	km/h, respectively.					
	B reaches $Q$ and returns immediately and meets $A$ at $R$ . Find the distance from $P$ to	$\circ R$ .					
	a) 72 km b) 76 km c) 78 km d) 68 km e) None of the above						
26.		=					
	thief also starts running. If the speed of the thief be 16 km/h and that of the policer	man be 20 km/h,					
	how far the theif will have run before he is overtaken?						
25	a) 800 m b) 850 m c) 700 m d) 650 m e) None of the above	D					
27.							
	passing each other, they complete their journeys in 16 h and 25 h, respectively. First, speeds of the 1 <sup>st</sup> man to that of the 2 <sup>nd</sup> man.	id the fano of					
	a) 5 : 4 b) 5 : 3 c) 4 : 5 d) 3 : 5 e) None of the above						
28.		s 125 km and they					
20.	meet at 75 km from A. What is the ratio of John's speed to that of Vinod's speed?	5 125 km and mey					
	a) 2:3 b) 3:2 c) 4:3 d) 5:4						
29.	, , , , , , , , , , , , , , , , , , , ,	n 4 times of the					
	time, then find the ratio of the two speeds.						
	a) 1:8 b) 1:4 c) 4:1 d) 8:1 e) None of the above						
30.	A man covers half of his journey at 6 km/h and the remaining half at 3 km/h. Find	his average speed.					

	a) 3 km/h b) 4 km/h c) 4.5 km/h d) 9 km/h					
31.	A is twice as fast as B and B is thrice as fast as C. The journey covered by C in 56 min will be					
	covered by $A$ in					
	a) $5\frac{1}{3}$ min b) $2\frac{1}{3}$ min c) $7\frac{1}{3}$ min d) $9\frac{1}{3}$ min e) None of the above					
32.	The ratio of speeds of a train and a car is 16: 15, respectively and a bus covered a distance of 480 km					
	in 8 h. The speed of the bus is $3/4^{th}$ of the speed of train. What distance will be covered by car in 6 h?					
	a) 450 km b) 480 km c) 360 km d) Couldn't be determined e) None of the above					
33.	The ratio of the speeds of $A$ and $B$ is $3:4$ . $A$ takes 20 min more than the time taken by $B$ to reach a					
	particular, place. Find the time taken by $A$ and $B$ , respectively to reach that place.					
	a) 40 min and 30 min b) 80 min and 60 min c) 90 min and 45 min					
	d) 90 min and 50 min e) None of the above.					
34.	The ratio between the speeds of two cars is 7:8. If the 2 <sup>nd</sup> car runds 200 km in 5 h, then find the					
54.	speed of the 1 st car.					
	a) 25 km/h b) 28 km/n c) 40 km/h d) 35 km/h e) None of the above					
35.	The ratio between the speeds of two buses is 5:3, If the 1 <sup>st</sup> bus runs 400 lkm in 8 h, then find the					
<b>5</b> 5.	speed of the 2 <sup>nd</sup> bus.					
	a) 30 km/h b) 15 km/h c) 27 km/h d) 37 km/h					
36.	The speeds of three cars are in the ratio of $2:3:5$ . Find the ratio of the time taken by the above cars					
<b>50.</b>	to travel the same distance.					
	a) 15:10:6 b) 6:10:15 c) 10:15:6 d) 10:6:15 e) None of the above					
37.	Nilu covers a distance by walking for 6h. While returing, his speed decreases by 2 km/h and he takes					
	9 h to cover the same distance. What was her speed while returning?					
	a) 2 km/h b) 5 km/h c) 4 km/h d) 7km/h e) None of the above					
38.	If sohail walks from his home to office at 16 km/h, he is late by 5 min. If he walks at 20 km/h, he					
	reaches 10 min before the office time. Find the distance of his office from his house.					
	a) 22 km b) 20 km c) 18 km d) 16 km					
39.	A car covers a distance of 200 km in 2 h 40 min whereas a jeep covers the same distance in 2 h. What					
	is the ratio of their speeds?					
	a) 3:4 b) 4:3 c) 4:5 d) 5:4 e) Nove of the above					
40.	Amit walks at a uniform speed of 4 km/h and 4 h after his start, Brijesh cycles after him at the					
	uniform rate of 20 km/h. How far from the starting point will Brijesh catch Amit?					
	a) 15km b) 18 km c) 13 km d) 20 km e) None of the above					
41.	A walks at a uniform rate of 2 km/h and 2 h after his start, B cycles after him at the uniform rate of 5					
	km/h. How far from the starting point will B catch A?					
	a) $6\frac{2}{3}$ km b) $6\frac{1}{3}$ km c) $6\frac{5}{7}$ km d) $6\frac{3}{7}$ km km e) None of the above					
42.	A person goes from one point to another point with a speed of 5 km/h and comes back to starting					
	point with a speed of 3 km/h. Find the average speed for the whole journey.					
	a) 4. 5 km/h b) 4 km/h c) 4.25 km/h d) 3.75 km/h					
43.	A train travels at the rate of 50 km/h without stoppages and it travels at 40 km/h stoppages. How					
	many minutes does the train stop on an average per hour?					
	a) 6 min b) 12 min c) 18 min d) 14 min e) None of the above					
44.	A bus travels at the rate of 54 km/h without stoppages and it travels at 45km/h with stoppages. How					
	many minutes does the bus stop on an average per hour?					
a) 8 n						

	speed of the car?						
	a) 40 km/h	b) 25 km/h	c) 15km/h	d) 12.5 km/	h e) None of the above		
46.	A car runs at the speed of 50 km/h when not service and runs at 60 km/h, when serviced. After						
	servicing, the car covers a certain distance in 6 h. How much time will the car take to cover the same						
	distance when not serviced?						
	a) 8.2 h	b) 6.5 h	c) 8 h	d) 7.2 h	e) None of the above		
47.	A boy walkin	g at a speed of	at a speed of 15 km/h reaches his school 20 min late. Next time he increases his speed				
	by 5 km/h but	t still he late by	5 min. Find the	min. Find the distance of the school from his home.			
	a) 5 km	b) 10 km	c) 15 km	d) 20 km			
48.	A person trav	els a certain dis	stance at 3 km/l	h and reaches 1	5 min late. If he travels at 4 km/h, he		
	reaches 15 mi	in earlier. The o	distance he has	to travel is			
	a) 4. 5 km	b) 6 km	c) 7. 2 km	d) 12 km			

**45.** A car travels a distance of 75 km at the speed of 25 km/h. It covers the next 25 km of its journey at the speed of 5 km/h and the last 50 km of its journey at the speed of 25 km/h. What is the average