Topic: - Direct & Inverse Variation	ICE PAPER CE	35E-8"
1. Reema types 540 words during half an hour. F	•	
2. Suneeta types 1080 words in one hour. What		
3. 11 men can dig $6\frac{3}{4}$ metre long trench in one d		or digging 27-
metre-long trench of the same type in one day?		Ans. 44 mei
4. 1000 soldiers in a fort had enough food for 20		to another for
and the food lasted for 25 days. How many soldi		Ans. 200
5. 120 men had food provisions for 200 days. Aft	ter 5 days, 30 men died due to an epidemi	
the remaining food last?		Ans. 260 day
6. If x and y vary inversely as each other and		
i) $x = 3$ when $y = 8$, find y when $x = 4$.	ii) $y = 35$, find x when constant of var	
	Ans. <i>i</i>) :	y = 6, ii) $x =$
7. A and B can do a piece of work in 12 days, B a	nd C in 15 days, C and A in 20 days. In how	v many days wil
they finish it together and separately.	Ans. Together = 10 days, A = 3	0, B = 20, C = 60
8. A and B can polish the floors of a building in 2	5 days. A alone can do $\frac{1}{3}$ of this job in 15 d	ays. In how
many days can B alone polish the floors of the b	uilding?	Ans. $56\frac{1}{4}$ days
9. 5 men can complete a job in 8 days. How many days will it take if 12 men do the job?		Ans. $3\frac{1}{3}$ days
10. Raj Sweeps 600 m long railway platform in 2	$\frac{1}{2}$ hours. His wife Ritu sweeps $\frac{2}{3}$ rd of the s	ame platform i
$1\frac{1}{2}$ hours. Who sweeps more speedily?	Ans. Raj = 240 m	, Ritu = $266\frac{2}{3}$ n
11. A cistern can be filled by a tap in 6 hours and	l emptied by an outlet pipe in 8 hours. Ho	w long will it
take to fill the cistern, if both the taps and the pi	ipe are opened together?	Ans. 24 hour
12. Pipe A can fill an empty tank in 6 hours and p	pipe B in 8 hours. If both the pipes are ope	ened and after 2
hours pipe A is closed, how much time B will tak	e to fill the remaining tank?	Ans. $3\frac{1}{3}$ hour

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