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VADODARA**

Date:	Worksheet-Direct and inverse proportions	Subject:Mathematics
Class: VIII	Name of the student:	

Q1. Find in which of the following tables, x and y vary directly with each other.

X	1	2	3	4	5	6	7
Y	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{7}$	$\frac{1}{8}$

X	5	6	8	10	12	15
Y	25	30	40	50	60	75

Q2. Given $xy=6$, complete the following table:-

X	?	?	?	?	?	?
Y	1	2	3	4	5	6

Q3. If 4 labourers can dig a well in 15 days, how many days will 6 labourers take to dig it?

Q4. A machine can print 20,000 sheets in one hour. How much time to print 25,000 sheets?

Q5. A car travels at a speed of 72km/hr. How much distance will it travel in 30 seconds?

Q6. Walking at 6 km per hour, a person reaches his office from his residence in 8 minutes, how long will he take if he walks at 8 km per hour?

Q7 A 280 m long goods train is running at 50km/hr. How much time will it take to cross a tree?

Q8 A 250 m long train is running at a speed of 55km/hr. In how much time will it cross a platform of length 520m?

Q9. A can do a job in 6 days and B can do the same job in 12 days. If A and B decide to do the job together, how many days will they take to complete the job?

Q10. A cistern tank has two inlet pipes **A** and **B** that can completely fill the cistern in 10 and

12 minutes respectively. An outlet pipe C in the cistern tank can empty the tank in 8minutes. If all three pipes are opened together, how long will it take to fill the cistern completely?