



INDIAN SCHOOL DARSAIT

DEPARTMENT OF MATHEMATICS



Subject : Mathematics	Topic : Direct and inverse proportions (5)	Date of Worksheet : ___
Resource Person: MrsPriyaBijukumar	Date : _____	
Name of the Student : _____	Class & Division : VIII	Roll Number : ___

SECTION - A

1	Find x in each of the following proportion. (a) $x: 12::14:24$ (b) $15:7::60:x$	
2	20 bars of chocolate cost Rs 320. Find the cost of 35 such chocolate bars?	
3	The cost of 40 metres of cloth is Rs 200. Find the cost of 50 metres of cloth?	
4	A motorbike travels 165 km in 3 hours. How long will it take to travel 440 km?	
5	Shanu spends Rs 15,000 in 3 months. How many months will she take to spend Rs 45,000?	
6	The rent of a room for 4 months is Rs 4500. What is the rent of the room for a year?	

SECTION -B

1.	Identify the case of direct variation and inverse variation a) Time taken to cover a fixed distance and speed b) Number of people and the time taken to complete a task c) The number of articles and cost d) The height and weight of a person	2												
2.	If 12 men can dig a pond in 8 days .How many men can dig it 6 days .	2												
3.	500 soldiers fort had enough food for 30 days. After 6 days ,some soldiers were sent to another fort and thus the food lasted for 32 more days. How many soldiers left the fort?	2												
4.	If the cost of 5 books is 300 Rs ,find a) the number of copies that can be bought for Rs 12000. b) The cost of 20 copies of books	2												
5.	In a map ,a scale of 1cm represent 75km.What would be the distance on map if two towns are 400km away.	2												
6.	If a and b varies inversely ,complete the table	2												
<table border="1" style="width: 100%; border-collapse: collapse; margin-left: 20px;"> <tr> <td style="width: 15%;">a</td> <td style="width: 15%;">50</td> <td style="width: 15%;">25</td> <td style="width: 15%;">...</td> <td style="width: 15%;">20</td> <td style="width: 15%;">.....</td> </tr> <tr> <td>b</td> <td>2</td> <td>...</td> <td>10</td> <td>...</td> <td>100</td> </tr> </table>			a	50	25	...	20	b	2	...	10	...	100
a	50	25	...	20									
b	2	...	10	...	100									

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7	If a and b varies directly ,complete the table						2
	a	7	8	...	24	
	b	14	...	18	...	100	
8	A machine produces 180 tools in 6 hour. How many tools will it produce in 9 hours. How much time will it take to produce 7200 tools						3
9	Jayanthi reads 20 pages of a boo every day and finishes it in 12 days. Raju is a slow reader and can only read 15 pages every day. How many days will he take to finish the book.						
9	A car takes 3 hours to reach destination by travelling at the speed of 60km/h. How long will it take when the car travels at the speed of 90 km/h						3
10	A car travels 25 Km in 20 minutes ,How long will it travel in 1 hour?Find the time required to over 125 km .						3
SECTION-C (Hot questions)							
1	A can do a piece of work in 8 days and B can finish the work in 10 days .How much time will they take to do it together.						
2	A and B together can d a piece of work in 15 days. A alone can finish the wok in 20 days .In how many days can B finish the work						