



Use a table to solve each problem. Briefly explain or show your reasoning.

- Qualitek is a company that makes industrial pins. There are usually six machines available, and the six machines can make a total of 300 pins in eight days. How long will it take three machines to make 300 pins? How long will it take one machine to make 300 pins? How long will it take 12 machines to produce 300 machines?

Number of Machines	Number of Pins	Number of Days
6	300	8
3	300	
1	300	
12	300	

- A herd of 100 dairy cows in California produces an average of 800 gallons of milk each day. Justin operates a dairy farm in California with 75 cows. On average, how much milk will Justin's cows produce in seven days? If Justin doubles his herd size to 150 cows, how long will it take to produce the same amount of milk that 75 cows produce in seven days?

Number of Cows	Gallons of Milk	Number of Days
100	800	1