

September 28th

If 30 soldiers eat 150 loaves in 7 days, how long would 45 loaves last 21 soldiers at the same rate of eating?

Soldiers	Loaves	Days
30	150	7
3	150	70
21	150	10
21	15	1
21	45	3

Therefore 45 loaves would last 21 soldiers **3 days**

Alternatively:

Soldiers x days \div loaves = constant = $\frac{7}{5}$

$$\therefore 21 \times d \div 45 = \frac{7}{5}$$

$$\therefore d = \frac{7}{5} \times 45 \div 21 = 3$$