

Travel on the bus with a ticket costs 23 dollars, and without a ticket it is free. How many times is it more expensive to travel with a ticket then without a ticket?

with ticket 50
without ticket 5
answer $50/5=10$

$$(1/n) * (n^2 / 1)$$

with ticket 23
without ticket 0
answer $23/0 = \text{infinity}$

$$\lim(1/n / 1/n^2) = \infty$$

$$n \rightarrow \infty$$

$$\lim(1/n / 1/n^2) = \lim(1 / 1/n) = 1/0 = \infty$$

$23/10=2.3$
 $23/1=23$
 $23/0.1=230$
 $23/0.01=2300$
 $23/0.001=23000$

