Proportion Word Problem Step-by-Step Lesson

Mikai walks her dog Rufus take regular walks together. Mikai and Rufus travel 5 miles every 8 days. Over the last 40 days how far have Mikai and Rufus walked?



Solution:

Start with what we know. We know that they walk 5 miles every 8 days. We can re-write this as: 5 miles = 8 days

We can easily create a proportion just by placing the proper units in the proportion:

$$\frac{5 \text{ miles}}{x} = \frac{8 \text{ days}}{40 \text{ days}}$$

To solve for x, we cross multiply:

$$200 = 8x$$

$$\frac{200}{8} = x$$
 or $x = 25$ miles