

Name: Class:

Add and subtract fractions with like denominators: word problems

1. Mark has to walk $\frac{15}{17}$ kilometer to the mall. He has already covered $\frac{5}{17}$ kilometer. How many meters does he have left to get to the mall?



2. There are two lions in a local zoo in Neil's town. One is an African adult male lion that weighs $\frac{21}{100}$ tons and the other is an Asian adult male lion that weighs $\frac{18}{100}$ tons. What is the total weight of both lions in pounds?



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1. Mark has to walk $\frac{15}{17}$ kilometer to the mall. He has already covered $\frac{5}{17}$ kilometer. How many meters does he have left to get to the mall?



Let's first of all write down the information given.

Number of km she needs to cover = $\frac{15}{17}$ km.

Number of km covered already = $\frac{5}{17}$ km.

Therefore, number of km left to cover = $\frac{15}{17} - \frac{5}{17} = \frac{15-5}{17} = \frac{10}{17}$ km.

But we know that,

1 km = 1,000m.

So, $\frac{10}{17}$ km = $(1,000 \times \frac{10}{17})$ m = $\frac{1,000 \times 10}{17}$ m = $\frac{10,000}{17}$ m.

$$\begin{array}{r} \frac{10,000}{17} \text{ m} = 17 \overline{) 10,000} \\ \underline{- 85} \\ 150 \\ \underline{- 136} \\ 140 \\ \underline{- 136} \\ 4 \end{array}$$

So, she has $588 \frac{4}{17}$ meters left to get to the mall.

2. There are two lions in a local zoo in Neil's town. One is an African adult male lion that weighs $\frac{21}{100}$ tons and the other is an Asian adult male lion that weighs $\frac{18}{100}$ tons. What is the total weight of both lions in pounds?

Let's first of all start by adding the weight of both lions.

$$\frac{21}{100} + \frac{18}{100} = \frac{21+18}{100} = \frac{39}{100} \text{ tons.}$$

But we know that, 1 ton = 2,000 pounds.

So, $\frac{39}{100}$ tons = $(2,000 \times \frac{39}{100})$ pounds = $\frac{2000 \times 39}{100}$ pounds = $20 \times 39 = 780$ pounds.

Therefore, both lions have a total weight of 780 pounds.

