


Grade 9 Mathematics Worksheet

Ratio, rate and proportion2

Questions:

1. As a tourist you need to be able to understand how to do conversions. You are visiting the United States of America and want to hire a car. You are given the following advertisement by the hotel:

	THE ONE CAR STOP	
The best prices under the sun this holiday Up to 175 miles free of charge	Rental per day	\$47
	Cost per mile >175	\$0,36

You know that now \$1 = R8,25 and that 1km = 0,62137 miles.

- a) You want to travel from New York to Washington DC which is 225 miles apart. How much will you pay in dollars for this trip?
- b) How much, in Rand, will this amount in (a) be?
- c) Write down an equation that will give you the cost in dollars for a journey of x miles long where x is the distance that you travelled more than 175miles.

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Solution

1. a) Miles that you will travel over 175: $225 - 175 = 50$ miles. So the car rental will be \$47 and the miles cost will be $50 \times \$0,36$. Thus the total in dollars will be:
 $47 + 50 \times 0,36 = \$65$
- b) $65 \times 8,25 = R536,25$.
- c) $C = 47 + 0,36x$ for one day. For y days and x miles over 175 miles your cost becomes $C = 47y + 0,36x$.

Learners can be asked to use their function they created to check answers that can be found by doing simple calculations.