

Name: _____

Date: _____

Converting Metric units

PART 1: CONVERTING BY MULTIPLYING OR DIVIDING WITH A CALCULATOR

(1) 56 km = _____ cm

(A) How many units up or down from cm to km? _____

(B) How much bigger or smaller is one unit from the last? _____

(C) Explain what you multiplied or divided by here (what did you type in the calculator?): _____

(D) Write the answer on line **(1)**

(2) 83,387 mm = _____ Dm

(A) How many units up or down from Dm to mm? _____

(B) How much bigger or smaller is one unit from the last? _____

(C) Explain what you multiplied or divided by here (what did you type in the calculator?): _____

(D) Write the answer on line **(2)**

(3) 3.89 hm = _____ dm

(A) How many units up or down from dm to hm? _____

(B) How much bigger or smaller is one unit from the last? _____

(C) Explain what you multiplied or divided by here (what did you type in the calculator?): _____

(D) Write the answer on line **(3)**

(4) 951.3 dm = _____ km

(A) How many units up or down from km to dm? _____

(B) How much bigger or smaller is one unit from the last? _____

(C) Explain what you multiplied or divided by here (what did you type in the calculator?): _____

(D) Write the answer on line **(4)**

PART 2: CONVERTING WITH DECIMAL SHORT CUT - Show how to convert these two questions by moving the decimal right (instead of multiplying) or left (instead of dividing)

(5) 928 m = _____ mm

(A) How many units up from mm to m? _____

(B) Moving the decimal once to the right is the same as multiplying by what? _____

(C) If the number you are converting doesn't have a decimal, where can you put it?

(D) If moved the decimal leaves 'blank' spaces in a number, what do you fill them with? Why?

(E) Write the answer on line **(5)**

(6) 34,892 cm = _____ m

(A) How many units up from m to cm? _____

(B) Moving the decimal once to the left is the same as dividing by what? _____

(C) Write the answer on line **(6)**

(7) 84.38 hm = _____ cm

(A) How many units down from cm to hm? _____

(B) Moving the decimal once to the right is the same as multiplying by what? _____

(C) Write the answer on line **(7)**

(8) 123.78 m = _____ hm

(A) How many units up from hm to m? _____

(B) Moving the decimal once to the left is the same as dividing by what? _____

(C) Write the answer on line **(8)**