Name: _____ Adding Zeros to a Decimal Number

When and where can you add zeros to decimal numbers?

If I have a decimal number like 578.34, where can I put a zero without changing the value of the number?

I can put zeros to the left of (**in front of**) the ***whole* part** of the number (the part that comes before the decimal point).

In the case of 578.34, this means that I can put all the zeros I want before the digit 5.

…0000578.34 = 578.34 *Why?*

I can also put zeros to the right of (**after**) the ***decimal* part** of the number (the part that comes after the decimal point).

In the case of 578.34, this means that I can put all the zeros I want after the digit 4.

578.34 = 578.340000… *Why?*

I **cannot** insert zeros *between* digits **or** *between* the decimal point and a digit on either side of the decimal point without changing the value of the number. *Why?*

I ***can*** add a decimal point and put a zero (or zeros) after the decimal point ***if*** *there are no other digits after the decimal point*. For example, 79 = 79.00

I ***can*** put a zero before the decimal point ***if*** *there are no other digits before the decimal point.*

Compare the following using {<, >, =}:

05.67 _____ 5.67

5.67 _____5.067

5.67 _____ 5.670

5.67 _____50.67

5 _____ 5.0

368.00 _____368

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Compare using {<, >, =}:

0.5 _____ .51	.06 _____ .10	8.1 _____8.09
1.01 _____ 0.99	.22 _____ .2 + .02	4/5 _____ .8
.25 _____1/4	.50 _____1/2	¾ _____.75
½ _____ .49	1.09 ____1.1	1½ _____1.50
1.6 _____1.60	1.03 _____ $1\ ^{3}/_{100}$	.2 _____.200
7/100 _____ .700	9/10 _____ .90	8.0 _____ 8.00
7 _____ 7.000	0.4 ____.40	1.0 _____ 0.1