## <u>Topic 10 – Decimal Place Value, x10, x100</u>

## The Method

Decimals are shown in tenths, hundredths, thousandths, etc. For example, 26.143 is:

Tens Units . Tenths Hundredths housandths

2 6 . 1 4 3

When we are asked to multiply or divide a decimal number by 10, 100, 1000, etc there is a simple method!

Multiply: move the decimal point to the right Divide: move the decimal point to the left

How many places we move it by depends on how many noughts there are in the number we are multiplying or dividing by. For example, when multiplying by 10, we move it one place (one nought in 10). When multiplying by 100, we move it two places (two noughts in 100).

Example: 26.143 x 10

26 43 ÷ 100

## The Questions

- 1) Write 8 tenths as a decimal: \_\_\_\_\_
- 2) Write 8 hundredths as a decimal: \_\_\_\_\_
- 3) How many hundredths are there in 0.27?

hundredths

- 4) How many tenths in 1.3? \_\_\_\_\_ tenths
- 5) 13.27 x 10 = \_\_\_\_\_
- 6) 0.543 x 100 =
- 7) 27.4 x 100 = \_\_\_\_
- 8) **92.58** ÷ **10** =
- 9) 32.7 ÷ 100 =
- 10) 7.61 ÷ 100 = \_\_\_\_
- 11) If 3.2 x 73.4 234.88, what is 3.2 x 7.34?