

## Multiplying a Whole Number by a Power of 10

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1. Solve the following problems:

$$26 \times 10^1 = \quad 26 \times 10^2 = \quad 26 \times 10^3 =$$

$$43 \times 10^1 = \quad 43 \times 10^2 = \quad 43 \times 10^3 =$$

$$54 \times 10^1 = \quad 54 \times 10^2 = \quad 54 \times 10^3 =$$

2. Choose three other 2-digit numbers between 10 and 100. Multiply each number by  $10^1$ ,  $10^2$ , and  $10^3$ .
3. What pattern do you notice in the number of zeros in the product when multiplying a number by powers of 10? Explain.