

## Squared ${ }^{2}$ and Cubed ${ }^{3}$ Numbers



$$
\begin{gathered}
5^{2}=25 \\
5 \times 5=25
\end{gathered}
$$

$$
5^{3}=125
$$

$$
5 \times 5 \times 5=125
$$

Related Calculations

$$
\begin{aligned}
8 \times 9 & =72 \\
80 \times 9 & =720
\end{aligned}
$$

$$
9 \times 8=72
$$

$$
90 \times 8=720
$$

$$
72 \div 9=8
$$

$$
72 \div 8=9
$$

$$
720 \div 9=80 \div 80
$$

## Short Multiplication

## $2543 \times 7=17801$

|  | 2 | 5 | 4 | 3 |
| :---: | :---: | :---: | :---: | :---: |
| $\times$ |  |  |  | 7 |
| $\mathbf{1}$ | 7 | 8 | 0 | 1 |
| 1 | 3 | 3 | 2 |  |

Remember to move any regrouped digits into the next column. After the next multiplication, add the regrouped number to the answer.

## Long Multiplication

$2543 \times 67=170381$

|  |  | 2 | 5 | 4 | 3 |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | $\times$ |  |  | 6 | 7 |
|  | 1 | 7 | 8 | 0 | 1 |
|  | 1 | 3 | 3 | 2 |  |
| 1 | 5 | 2 | 5 | 8 | 0 |
| 1 | 3 | 2 | 1 |  |  |
| 1 | 7 | 0 | 3 | 8 | 1 |

Before multiplying by the number in the tens column, remember to use zero as a placeholder because the 6 in 67 is 6 tens (60).

## Division

## $136 \div 4=34$

twinklearm

|  |  | 3 | 4 |
| :---: | :---: | :---: | :---: |
| 4 | 1 | 3 | 6 |
| - | 1 | 2 | 0 |
|  |  | 1 | 6 |
|  | - | 1 | 6 |
|  |  |  | 0 |
|  |  |  |  |
|  |  |  |  |

## Short Division


$15 \div 4=3$ remainder 3
Remember to regroup any remainders and move them into the next column.

$28 \div 5=5$ remainder 3
If your calculation has a remainder, remember to record it in the answer using the letter $r$.


