## Overview



Multiplication and Division we learn:
-Multiples -Factors -Common Factors -Prime Numbers -Square Numbers -Cube Numbers -Multiply and Divide by 10, 100, and 1,000.
-Multiples of 10, 100 and 1,000 .
-Multiply/ divide 4 digits by 1 digit -Divide with Remainders

$$
\begin{aligned}
& \text { Multiplication and Division is useful learning because it is }
\end{aligned}
$$

| Times Tables/ Multiplying \& Dividing by 10, 100, 1000/ Squared \& Cubed Numbers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| x | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Multiplying and Dividing by 10,100 and 1000 |  |  |  |  |  |  |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 10000100 | 1000 | 100 | 10 | 1 - $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| 2 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |  |  |  |  | - |  |  |
| 3 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |  |  |  |  |  |  |  |
| 4 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |  |  |  |  |  |  |  |
| 5 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |  |  |  |  |  |  |  |
| 6 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |  |  |  |  |  |  |  |
| 7 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 77 | 84 |  |  |  |  |  |  |  |
| 8 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 | Squared Numbers Cubed Numbers |  |  |  |  |  |  |
| 9 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 | 99 | 108 | $2^{2}$ |  |  | $\begin{gathered} 2 \times 2 \times 2=8 \\ 2^{3}=8 \end{gathered}$ |  |  |  |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |  | $1$ |  |  |  |  |  |
| 11 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 110 | 121 | 132 |  | 3 |  |  |  |  |  |
| 12 | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 | $2 \times 2=4$ |  |  |  |  |  |  |



## Factors, Prime Numbers and Related Calculations



## Key Vocabulary

| Times Tables | Multiply | Divide | Share | Remainder | Factor | Multiple | Product |
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