Name: $\qquad$

## Unit 1 - Numeracy Skills

## 1.3 - Multiplication \& Division

## Multiplication

When we multiply numbers together, we use the following procedure:

1. line up numbers starting from the right hand side
2. multiply the first two numbers on the right together
3. write the ones part of the number below the line
4. carry the tens part of the number to the top of the next column
5. multiply the next two numbers together and then add on the carried number, etc.
6. remember to insert a ZERO to start the second row and repeat steps 1 to 5
7. add the two rows together to come up with the final answer

| Examples: $2385 \times 3$ | $\begin{aligned} & 121 \\ & 2385 \end{aligned}$ | $58 \times 93$ | 7 2 58 |
| :---: | :---: | :---: | :---: |
|  | $\times \ldots$ |  | $\times \quad 93$ |
|  | 7155 |  | 174 |
|  |  |  | $+\underline{5220}$ |
|  |  |  | 5394 |

Try the following:

1. $1296 \times 5$
2. $47 \times 24$
3. $8645 \times 29$

## Division

We need to know our multiplication facts in order to be able to divide numbers. Use the following procedure when dividing two numbers:

1. put the number AFTER the $\div$ symbol on the OUTSIDE of the division bracket.
2. put the number BEFORE the $\div$ symbol on the INSIDE of the division bracket.
3. determine how many times the OUTSIDE number goes into the INSIDE number starting with the digits from the left side of the INSIDE number
NOTE: you may sometimes have to use groups of two digits from the INSIDE number.
4. subtract the numbers from each other.
5. Bring down the next digit from the INSIDE number and repeat steps \#3 and \#4
6. continue until you cannot bring down any more digits from the INSIDE number

Examples: $479 \div 3$

| 3 Times Table |
| :--- |
| $3 \times 1=3$ |
| $3 \times 2=6$ |
| $3 \times 3=9$ |
| $3 \times 4=12$ |
| $3 \times 5=15$ |
| $3 \times 6=18$ |
| $3 \times 7=21$ |
| $3 \times 8=24$ |
| $3 \times 9=27$ |

3) | 159 |
| ---: |
| 479 |

$\frac{-3}{17}$
$-15$
29
$-27$
2

$$
2 4 9 3 \div 7 \quad 7 \longdiv { 2 4 9 3 }
$$

$\underline{\mathbf{- 2 1}} \mathbf{3 9}$
$\underline{\mathbf{- 3 5}}$
$\mathbf{4 3}$
$\underline{\mathbf{- 4 2}}$
$\mathbf{1}$

$\quad$| 7 Times Table |
| :--- |
| $7 \times 1=7$ |
| $7 \times 2=14$ |
| $7 \times 3=21$ |
| $7 \times 4=28$ |
| $7 \times 5=35$ |
| $7 \times 6=42$ |
| $7 \times 7=49$ |
| $7 \times 8=56$ |
| $7 \times 9=63$ |

## Try the following:

1. $538 \div 5$
2. $6104 \div 4$
3. $1937 \div 6$

## Assignment

1. Multiply the following:
a. $\begin{array}{r}5793 \\ \times \quad 3 \quad 5 \\ \hline\end{array}$
b. $\begin{array}{r}720 \\ \times \quad 4 \quad 7 \\ \hline\end{array}$
C. $\begin{array}{r}9236 \\ \times \quad 5 \quad 9 \\ \hline\end{array}$
d. $\begin{array}{r}8351 \\ \times \quad 8 \\ \hline\end{array}$
e. $\begin{array}{r}930 \\ \times \quad 2 \\ \hline\end{array}$

f. | 88 | 4 | 2 |
| ---: | ---: | ---: |
| $\times$ | 7 | 3 |

g. $\begin{array}{r}713 \\ \times \\ \hline\end{array}$
h

2. Divide the following:
a. $4 \longdiv { 5 8 2 3 }$
b. $7 \longdiv { 9 8 4 3 }$
c. $9 \longdiv { 2 8 7 3 }$
d. $6 \longdiv { 5 1 9 6 }$

