

0 - 3 MULTIPLICATION FACTS

MULTIPLICATION IS ADDITION.
EXAMPLE: $2 \times 3 = 3 + 3 = 6$ OR $4 \times 1 = 1 + 1 + 1 + 1 = 4$.

$0 \times 0 = 0$	$0 \times 1 = 0$	$0 \times 2 = 0$	$0 \times 3 = 0$
$1 \times 0 = 0$	$1 \times 1 = 1$	$1 \times 2 = 2$	$1 \times 3 = 3$
$2 \times 0 = 0$	$2 \times 1 = 2$	$2 \times 2 = 4$	$2 \times 3 = 6$
$3 \times 0 = 0$	$3 \times 1 = 3$	$3 \times 2 = 6$	$3 \times 3 = 9$
$4 \times 0 = 0$	$4 \times 1 = 4$	$4 \times 2 = 8$	$4 \times 3 = 12$
$5 \times 0 = 0$	$5 \times 1 = 5$	$5 \times 2 = 10$	$5 \times 3 = 15$
$6 \times 0 = 0$	$6 \times 1 = 6$	$6 \times 2 = 12$	$6 \times 3 = 18$
$7 \times 0 = 0$	$7 \times 1 = 7$	$7 \times 2 = 14$	$7 \times 3 = 21$
$8 \times 0 = 0$	$8 \times 1 = 8$	$8 \times 2 = 16$	$8 \times 3 = 24$
$9 \times 0 = 0$	$9 \times 1 = 9$	$9 \times 2 = 18$	$9 \times 3 = 27$
$10 \times 0 = 0$	$10 \times 1 = 10$	$10 \times 2 = 20$	$10 \times 3 = 30$
$11 \times 0 = 0$	$11 \times 1 = 11$	$11 \times 2 = 22$	$11 \times 3 = 33$
$12 \times 0 = 0$	$12 \times 1 = 12$	$12 \times 2 = 24$	$12 \times 3 = 36$
$13 \times 0 = 0$	$13 \times 1 = 13$	$13 \times 2 = 26$	$13 \times 3 = 39$



DO YOU SEE A PATTERN FOR EACH SET? REMEMBER, MULTIPLICATION IS A SHORTCUT FOR ADDITION.

$$\begin{array}{r} 4 \times 2 = 8 \\ 5 \times 2 = 10 \\ 6 \times 2 = 12 \\ 7 \times 2 = 14 \end{array} \begin{array}{l} \left. \begin{array}{l} \\ \\ \\ \end{array} \right\} +2 \\ \left. \begin{array}{l} \\ \\ \\ \end{array} \right\} +2 \\ \left. \begin{array}{l} \\ \\ \\ \end{array} \right\} +2 \end{array}$$



IF YOU LOOK AT TWO, YOU CAN SEE THAT EVERY TIME WE MULTIPLY WE'RE JUST ADDING TWO TO THE ANSWER BEFORE IT.