

L.O. I am learning to spot patterns within multiplication tables.

A quick way to work out times tables you don't know...

1	×	3	=	3
2	×	3	=	6
3	×	3	=	■
4	×	3	=	■
5	×	3	=	15
6	×	3	=	■
7	×	3	=	■
8	×	3	=	■
9	×	3	=	■
10	×	3	=	30
11	×	3	=	33
12	×	3	=	■

- ← Everyone knows this!
- ← Everyone knows 2 times tables OR double the previous answer!
- ← Everyone knows 5 times tables.
- ← Everyone knows 10 times tables.
- ← Everyone knows 11 times tables. Double digit of 1 times table.

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9	×	3	=	■
10	×	3	=	30
11	×	3	=	33
12	×	3	=	■

- ← If you know 2x then add 3 OR squared number.
- ← If you know 5x then subtract 3.
- ← If you know 5x then add 3.
- ← Once you've worked out 6x, add 3.
- ← If you know 9x then subtract 3 or if you know 7x then add 3.
- ← If you know 10x then subtract 3.
- ← If you know 11x then add 3.

With your partner, work out this times table using this method.

$1 \times 3 = 3$	
$2 \times 3 = 6$	
$3 \times 3 = \blacksquare$	← If you know 2x then add 3 OR squared number.
$4 \times 3 = \blacksquare$	← If you know 5x then subtract 3.
$5 \times 3 = 15$	
$6 \times 3 = \blacksquare$	← If you know 5x then add 3.
$7 \times 3 = \blacksquare$	← Once you've worked out 6x, add 3.
$8 \times 3 = \blacksquare$	← If you know 9x then subtract 3 or if you know 7x then add 3.
$9 \times 3 = \blacksquare$	← If you know 10x then subtract 3.
$10 \times 3 = 30$	
$11 \times 3 = 33$	
$12 \times 3 = \blacksquare$	← If you know 11x then add 3.

x 6 tables

x 7 tables

x 13 tables

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What pattern do you spot here?

3	18	33	48
6	21	36	51
9	24	39	54
12	27	42	57
15	30	45	60

What about this one?

6 42

12 48

18 54

24 60

30 66

36 72

How does it link to the 3s?

3 21

6 24

9 27

12 30

15 33

18 36

With your partner, can you find any patterns between the 4 times table and the 8 times table?

$1 \times 4 = 4$
$2 \times 4 = 8$
$3 \times 4 = 12$
$4 \times 4 = 16$
$5 \times 4 = 20$
$6 \times 4 = 24$
$7 \times 4 = 28$
$8 \times 4 = 32$
$9 \times 4 = 36$
$10 \times 4 = 40$
$11 \times 4 = 44$
$12 \times 4 = 48$

$1 \times 8 = 8$
$2 \times 8 = 16$
$3 \times 8 = 24$
$4 \times 8 = 32$
$5 \times 8 = 40$
$6 \times 8 = 48$
$7 \times 8 = 56$
$8 \times 8 = 64$
$9 \times 8 = 72$
$10 \times 8 = 80$
$11 \times 8 = 88$
$12 \times 8 = 96$