Stage 1: Rote Learning

X	0	1	2	3	4	5	6	7	8	9	10	11	12
3													

0 x 3 =

3 x 0 =

0 ÷ 3 =

3 x 1 =

1 x 3 =

3 ÷ 1 =

3 x 2 =

2 x 3 =

6 ÷ 2 =

6 ÷ 3 =

3 x 4 =

4 x 3 =

12 ÷ 3 =

12 ÷ 4 =

3 x 8 =

8 x 3 =

24 ÷ 3 =

24 ÷ 8 =

3 x 3 =

9 ÷ 3 =

3 x 6 =

6 x 3 =

18 ÷ 3 =

18 ÷ 6 =

3 x 12 =

12 x 3 =

36 ÷ 3 =

36 ÷ 12 =

3 x 5 =

5 x 3 =

15 ÷ 3 =

15 ÷ 5 =

3 x 10 =

10 x 3 =

30 ÷ 3 =

30 ÷ 10 =

3 x 7 =

7 x 3 =

21 ÷ 3 =

21 ÷ 7 =

3 x 9 =

9 x 3 =

27 ÷ 3 =

27 ÷ 9 =

3 x 11 =

11 x 3 =

33 ÷ 3 =

33 ÷ 11 =

Stage 2: Memorisation

X	0	1	2	3	4	5	6	7	8	9	10	11	12
3													

0 x 3 =	0 ÷ 3 =
3 x 1 =	3 x 0 =
1 x 3 =	3 ÷ 1 =

6 ÷ 3 =	4 x 3 =
3 x 8 =	3 x 2 =
6 ÷ 2 =	12 ÷ 3 =
8 x 3 =	2 x 3 =
24 ÷ 3 =	3 x 4 =
24 ÷ 8 =	12 ÷ 4 =

36 ÷ 3 =	3 x 3 =
3 x 6 =	6 ÷ 3 =
18 ÷ 6 =	36 ÷ 12 =
6 x 3 =	18 ÷ 3 =
3 x 12 =	12 x 3 =

30 ÷ 3 =	3 x 10 =
15 ÷ 5 =	15 ÷ 3 =
30 ÷ 10 =	3 x 5 =
10 x 3 =	5 x 3 =

3 x 7 =	7 x 3 =
3 x 11 =	3 x 9 =
9 x 3 =	11 x 3 =
27 ÷ 3 =	27 ÷ 9 =
21 ÷ 3 =	33 ÷ 3 =
33 ÷ 11 =	21 ÷ 7 =

Stage 3: Varied Application

X	0	1	2	3	4	5	6	7	8	9	10	11	12
3													

__ x 3 = 0	3 x __ = 0
__ ÷ 3 = 0	__ x 1 = 3
__ x 3 = 3	__ ÷ 1 = 3

6 ÷ __ = 2	__ x 3 = 12
3 x __ = 24	3 x __ = 6
6 ÷ __ = 3	__ ÷ 3 = 4
__ x 3 = 24	2 x __ = 6
__ ÷ 3 = 8	__ x 4 = 12
24 ÷ __ = 3	__ ÷ 4 = 3

__ ÷ 3 = 12	__ x 3 = 9
3 x __ = 18	__ ÷ 3 = 2
12 x __ = 36	__ ÷ 6 = 3
__ x 3 = 18	18 ÷ __ = 6
3 x __ = 36	36 ÷ __ = 3

__ ÷ 3 = 10	3 x __ = 30
__ ÷ 5 = 3	__ ÷ 3 = 5
30 ÷ __ = 3	3 x __ = 15
__ x 3 = 30	5 x __ = 15

3 x __ = 21	11 x __ = 33
7 x __ = 21	3 x __ = 33
3 x __ = 27	__ ÷ 3 = 9
__ ÷ 9 = 3	__ ÷ 11 = 3
__ x 3 = 27	__ ÷ 3 = 7
__ ÷ 3 = 11	__ ÷ 7 = 3