Varied Fluency
Step 1: 11 and 12 Times Table

National Curriculum Objectives:

Mathematics Year 4: (4C6a) <u>Recall multiplication and division facts for multiplication tables up to 12 × 12</u>
Mathematics Year 4: (4C7) <u>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout</u>

Differentiation:

Developing Questions to support the application of the 11 and 12 times table up to 12x, using Base 10 as pictorial support for all questions.
Expected Questions to support the application of the 11 and 12 times table, up to 12x, using pictorial support or scaffolding to show some partitioning.
Greater Depth Questions to support the application of the 11 and 12 times table up to 12x, without pictorial support.
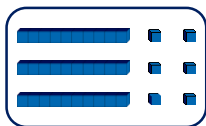
More <u>Year 4 Multiplication and Division</u> resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.

11 and 12 Times Table

1a. Complete 12 x 3, by partitioning it into tens and ones.

☆ (D)

□ + □ = □

VF

1b. Complete 11 x 5, by partitioning it into tens and ones.

☆ (D)

□ + □ = □

VF

2a. Fill in the grid to find the answer.

x		

4 x 11 = □

☆ (D)

VF

2b. Fill in the grid to find the answer.

x		

12 x 6 = □

☆ (D)

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3a. Arrange the Base 10 below into equal groups of 12 below to solve 48 ÷ 12.

48 ÷ 12 = □

☆ (D)
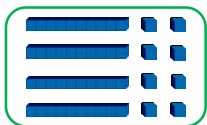
VF

3b. Arrange the Base 10 below into equal groups of 11 to solve 33 ÷ 11.

33 ÷ 11 = □

☆ (D)

VF

4a. Complete the missing numbers.

A. ▬ • x □ =

B. ▬ •• x □ =

C. | x □ =

☆ (D)

VF

4b. Complete the missing numbers.

A. | x □ =

B. ▬ • x □ =

C. ▬ •• x □ =

☆ (D)

VF

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Varied Fluency – 11 and 12 Times Table – Year 4 Developing

5a. Complete 6 x 11, by partitioning it into tens and ones.

| 10 | 10 | 10 | 1 | 1 | 1 |
| 10 | 10 | 10 | 1 | 1 | 1 |

| 1 | 1 | 1 |
| 1 | 1 | 1 |

6 tens

☆E [ ] + [ ] = [ ]   VF

5b. Complete 7 x 12, by partitioning it into tens and ones.

| 10 | 10 | 10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 10 | 10 | 10 | 1 | 1 | 1 | 1 | 1 |

| 10 | 10 | 10 |
| 10 | 10 | 10 | 10 | **14 ones**
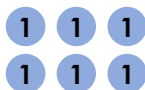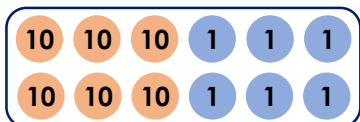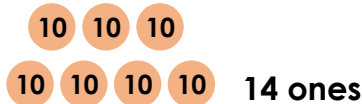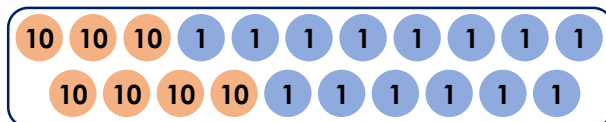
☆E [ ] + [ ] = [ ]   VF

6a. Fill in the grid to find the answer.

x	10	2
6		

☆E   **12 x 6 =** [ ]   VF

6b. Fill in the grid to find the answer.

x	10	1
9		

☆E   **9 x 11 =** [ ]   VF

7a. Use >, < or = to make each statement correct.

60 ÷ 12 [ ] 66 ÷ 11

10 x 11 [ ] 7 x 12

12 x 11 [ ] 132 ÷ 12

☆E   VF

7b. Use >, < or = to make each statement correct.

72 ÷ 12 [ ] 77 ÷ 11

5 x 11 [ ] 4 x 12

99 ÷ 11 [ ] 108 ÷ 12

☆E   VF

8a. Complete the missing numbers.

A.   [ ]   x   11   =   22

B.   8   x   12   =   [ ]

C.   [ ]   ÷   2   =   11

D.   96   ÷   [ ]   =   12

☆E   VF

8b. Complete the missing numbers.

A.   66   =   [ ]   x   11

B.   3   x   12   =   [ ]

C.   [ ]   x   6   =   66

D.   36   ÷   3   =   [ ]

☆E   VF

9a. Complete 12 x 11, using partitioning.

12 x 11

7 x 11   ? x 11   2 x ?

[ ]   [ ]   [ ]

so, 12 x 11 = [ ]

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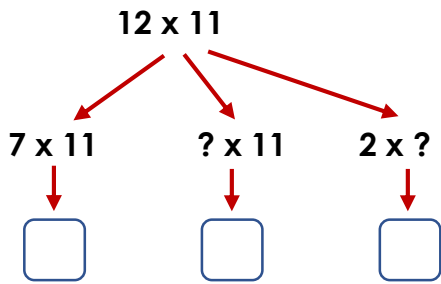
9b. Complete 8 x 12, using partitioning.

8 x 12

? x 12   3 x ?   1 x 12

[ ]   [ ]   [ ]
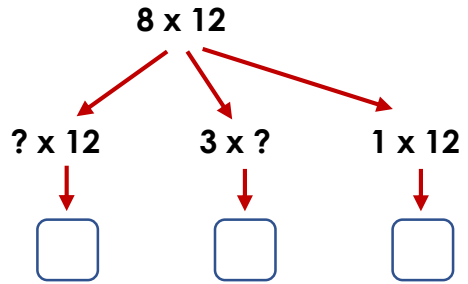
so, 8 x 12 = [ ]

VF

10a. Fill in the missing digits below to complete the multiplication puzzle.

	T	O
	1	1
x		?
	?	8

>

	T	O
	?	2
x		?
	7	?

VF

10b. Fill in the missing digits below to complete the multiplication puzzle.

	T	O
	?	2
x		?
	6	0

<

	T	O
	1	?
x		6
	?	6

VF

11a. Use >, < or = to make each statement correct.

9 x 11 [ ]   77 [ ]   6 x 12

12 x 5 [ ]   6 x 11 [ ]   12 x 7

132 ÷ 12 [ ]   11 [ ]   2 x 12

VF

11b. Use >, < or = to make each statement correct.

10 x 12 [ ]   11 x 11 [ ]   11 x 8

11 x 5 [ ]   4 x 12 [ ]   11 x 9

1 x 12 [ ]   108 ÷ 12 [ ]   1 x 11

VF

12a. Complete the missing numbers.

A.   [ ] x 12 = 84

B.   121 ÷ [ ] = 11

C.   36 = 3 x [ ]

D.   [ ] ÷ 11 = 7

VF

12b. Complete the missing numbers.

A.   72 = [ ] x 6

B.   132 ÷ 12 = [ ]

C.   7 x [ ] = 84

D.   [ ] = 99 ÷ 11

VF

Varied Fluency
11 and 12 Times Table

Developing
1a. 30 + 6 = 36
2a. 40 + 4 = 44 so 4 x 11 = 44
3a. There should be four equal groups, as shown below.

48 ÷ 12 = **4**

4a. A = 3, B = 4 and C = 6

Expected
5a. 60 + 6 = 66
6a. 60 + 12 = 72
7a. <, > and >
8a. A = 2, B = 96, C = 22 and D = 8

Greater Depth
9a. 7 x 11 = 77, 3 x 11 = 33 and 2 x 11 = 22
77 + 33 + 22 = 132, so 12 x 11 = 132
10a. The missing digits are shown below:

11a. > and >; < and <; = and <
12a. A = 7; B = 11; C = 12 and D = 77

Varied Fluency
11 and 12 Times Table

Developing
1b. 50 + 5 = 55
2b. 60 + 12 = 72 so 12 x 6 = 72
3b. There should be three equal groups, as shown below.

33 ÷ 11 = **3**

4b. A = 7, B = 3 and C = 6

Expected
5b. 70 + 14 = 84
6b. 90 + 9 = 99
7b. <, > and =
8b. A = 6, B = 36, C = 11 and D = 12

Greater Depth
9b. 4 x 12 = 48, 3 x 12 = 36 and 1 x 12 = 12
48 + 36 + 12 = 96, so 8 x 12 = 96
10b. The missing digits are shown below:

11b. < and >; > and <; > and <
12b. A = 12, B = 11, C = 12 and D = 9

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Varied Fluency – 11 and 12 Times Table ANSWERS