Varied Fluency
Step 2: Multiply 4-Digits by 2-Digits

National Curriculum Objectives:

Mathematics Year 6: (6C7a) Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
Mathematics Year 6: (6C8) Solve problems involving addition, subtraction, multiplication and division

Differentiation:

Developing Questions to support multiplying 4-digits by 2-digits using a column multiplication format where possible with no exchanging.
Expected Questions to support multiplying 4-digits by 2-digits using a linear and column multiplication format with up to 3 exchanges.
Greater Depth Questions to support multiplying 4-digits by 2-digits using a linear and column multiplication format with multiple exchanges where numbers are represented in numerals and words.

More Year 6 Four Operations resources.

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

Multiply 4-Digits by 2-Digits

1a. Solve the calculation using column multiplication.

		2	1	3	2
x				3	1

VF

Multiply 4-Digits by 2-Digits

1b. Solve the calculation using column multiplication.

		3	2	0	4
x				1	2

VF

2a. Which calculation is correct?

A.

		1	3	4	2
x				1	1
		1	3	4	2
	1	3	4	2	0
	1	4	7	6	2

B.

		2	1	1	2
x				3	4
		8	4	4	8
		6	3	3	6
	1	4	7	8	4

1

VF

2b. Which calculation is correct?

A.

		2	3	0	3
x				3	1
		2	3	0	3
	6	9	3	9	0
	7	1	6	9	3

1

B.

		2	0	4	2
x				1	2
		4	0	8	4
	2	0	4	2	0
	2	4	5	0	4

1

VF

3a. Add >, < or = to make these statements correct.

	8	4	2	0
x			1	1

◯ 92,620

	1	4	3	1
x			2	1

◯

	2	3	1	2
x			1	3

VF

3b. Add >, < or = to make these statements correct.

	2	3	3	1
x			1	3

◯

	1	0	1	2
x			2	1

99,930 ◯

	3	1	2	3
x			3	2

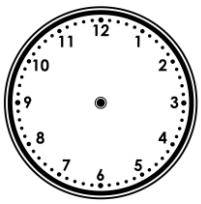
VF

4a. There are twenty 5ps in one pound. How many 5ps are there in £2,413?

		2	4	1	3
x				2	0

VF

4b. There are 1,440 minutes in a day. How many minutes are there in 3 weeks?



		1	4	4	0
x				2	1

VF

Multiply 4-Digits by 2-Digits

5a. Solve the calculation using column multiplication.

31 x 5,142 =

VF

Multiply 4-Digits by 2-Digits

5b. Solve the calculation using column multiplication.

42 x 2,307 =

VF

6a. Which calculation is correct?

A.

		1	3	4	3
x				3	2
		2	6	8	6
	4	0	2	9	0
	4	2	9	7	6

B.

		2	1	5	2
x				2	4
		8	6	0	8
	4	2	0	4	0
	5	0	6	4	8

VF

6b. Which calculation is correct?

A.

		3	2	0	3
x				2	7
	2	2	4	2	1
	6	4	0	6	0
	8	6	4	8	1

B.

		7	0	1	5
x				1	4
	2	8	0	6	0
	7	1	1	5	0
	9	9	2	1	0

VF

7a. Add >, < or = to make these statements correct.

	3	4	1	2
x			1	4

◯ 47,500

60,016 ◯

	1	9	3	6
x			3	1

7,124 x 19 ◯ 2,213 x 72

VF

7b. Add >, < or = to make these statements correct.

6,283 x 14 ◯

	2	9	4	6
x			3	1

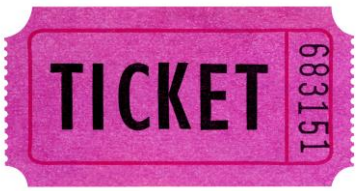
109,683 ◯ 8,429 x 13

	3	2	1	3
x			7	3

◯ 233,960

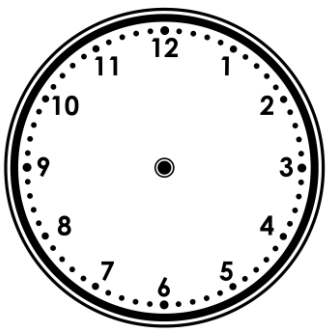
VF

8a. There are 2,750 tickets sold every day of a 2 week concert. How many tickets were sold altogether?



VF

8b. There are 3,600 seconds in one hour. How many seconds are there in 24 hours?



VF

Multiply 4-Digits by 2-Digits

9a. Solve the calculation using column multiplication.

Seventy-four multiplied by two thousand and eighty-six

GD VF

Multiply 4-Digits by 2-Digits

9b. Solve the calculation using column multiplication.

Four thousand, nine hundred and eighteen multiplied by forty-five

GD VF

10a. Which calculation is correct?

A.

		4	1	5	4
x				8	3
	1	2	4	6	2
3	2	8	3	2	0
3	4	0	7	8	2

B.

		2	7	9	1
x				5	2
		5	5	8	2
1	3	9	5	5	0
1	4	5	1	3	2

GD VF

10b. Which calculation is correct?

A.

		5	0	6	3
x				7	1
		5	0	6	3
3	5	4	4	1	0
3	5	9	4	7	3

B.

		8	4	0	7
x				9	4
	3	3	6	2	8
7	5	4	6	3	0
7	8	8	2	5	8

GD VF

11a. Add >, < or = to make these statements correct.

	5	7	2	5
x			2	3

◯ 131,685

292,978 ◯ Eight thousand, six hundred and seventeen multiplied by thirty-four

6,395 x 37 ◯ 4,862 x 68

GD VF

11b. Add >, < or = to make these statements correct.

Five thousand nine hundred and seventy two multiplied by sixty-three ◯ 3,848 x 73

6,952 x 59 ◯ 411,268

	7	1	6	3
x			5	4

◯ 5,038 x 68

GD VF

12a. An apple pie factory uses six thousand, seven hundred and thirty-six apples each week. How many apples will be used in fifty-two weeks?

GD VF

12b. There are nine thousand, seven hundred and fifty tickets tickets sold every day of a football tournament in July. How many tickets were sold altogether?

GD VF

Varied Fluency
Multiply 4-Digits by 2-Digits

Developing
1a. 66,092
2a. A
3a. =, <
4a. 48,260

Expected
5a. 159,402
6a. A
7a. >, =, <
8a. 38,500 tickets

Greater Depth
9a. 154,364
10a. B
11a. <, =, <
12a. 350,272

Varied Fluency
Multiply 4-Digits by 2-Digits

Developing
1b. 38,448
2b. B
3b. >, <
4b. 30,240

Expected
5b. 96,894
6b. A
7b. <, >, >
8b. 86,400 seconds

Greater Depth
9b. 221,310
10b. A
11b. >, <, >
12b. 302,250