# Varied Fluency Step 8: Multiply 3-Digits by 2-Digits

#### **National Curriculum Objectives:**

Mathematics Year 5: (5C6a) <u>Multiply and divide numbers mentally drawing upon</u> known facts

Mathematics Year 5: (5C7a) <u>Multiply numbers up to 4 digits by a one- or two-digit number</u> using a formal written method, including long multiplication for two-digit numbers

#### Differentiation:

Developing Questions to support multiplying 3-digit numbers by 2-digit numbers (up to 30). No exchanges.

Expected Questions to support multiplying 3-digit numbers by 2-digit numbers (up to 50). Up to one exchange per calculation.

Greater Depth Questions to support multiplying 3-digit numbers by 2-digit numbers (up to 99). One or more exchanges per calculation.

More Year 5 and Year 6 Multiplication and Division resources.

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

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## **Multiply 3-Digits by 2-Digits**

## **Multiply 3-Digits by 2-Digits**

1a. Use the grid method to complete the calculation below.

x	10	2
200		
0		
1		

201 x



5 VF

1b. Use the grid method to complete the calculation below.

x	20	2
300		
10		
0		

310 x 22 =

2a. Fill in the missing numbers in the calculation below.

12

x 1

4 1 (441 x 1)

4 4 1 0 (441 x 10)

1

2b. Fill in the missing numbers in the calculation below.

3 0 3

x 1

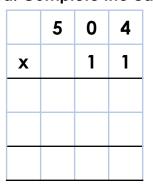
0 6 (303 x 2)

3 0 3 0 (303 x 10)

6



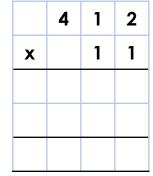
8

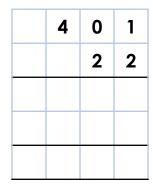


Jations below.  3 1 4				
X		2	1	

3b. Complete the calculations below.

6





5 VF

5 VF

命

Which has the larger answer?

5 VF

5 VF

企

Which has the larger answer?

4a. Use <, > or = to complete the statements.

314 x 21 33

332 x 11

504 x 12 202 x 13

4b. Use <, > or = to complete the statements.

412 x 11

413 x 21

313 x 11

310 x 22

5 VF

## **Multiply 3-Digits by 2-Digits**

## **Multiply 3-Digits by 2-Digits**

5a. Use the grid method to complete the calculation below.

x	30	1
300		
20		
1		



5b. Use the grid method to complete the calculation below.

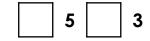
x	40	1
200		
10		
3		

5 VF

6a. Fill in the missing numbers in the calculation below.



6b. Fill in the missing numbers in the calculation below.



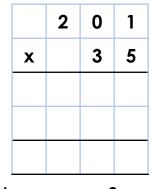
7a. Complete the calculations below.

	1	0	1
X		4	2

didions below.				
	3	1	6	
X		1	2	

7b. Complete the calculations below.

	2	1	2
x		3	2



5 VF

5 VF



Which has the larger answer?

5 VF

5 VF

Which has the larger answer?

8a. Use <, > or = to complete the statements.



313 x 13



302 x 22

212 x 33



8b. Use <, > or = to complete the

213 x 42



statements.



102 x 36

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## **Multiply 3-Digits by 2-Digits**

## **Multiply 3-Digits by 2-Digits**

9a. Use the grid method to complete the calculation below.

x	60	2
100		
10		
2		

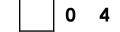


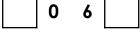
9b. Use the grid method to complete the calculation below.

X	50	1
200		
10		
1		



10a. Fill in the missing numbers in the calculation below.







10b. Fill in the missing numbers in the calculation below.

0 8

	0	6	
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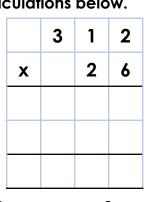


5 VF



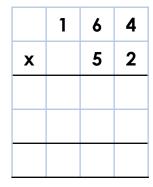
11a. Complete the calculations below.

	1	2	3
X		5	1



11b. Complete the calculations below.

	2	0	6
x		2	9



5 VF

5 VF

5 VF



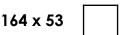
Which has the larger answer?

5 VF

Which has the larger answer?

12a. Use <, > or = to complete the statements.

statements.



12b. Use <, > or = to complete the

204 x 28



133 x 72

211 x 51

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## <u>Varied Fluency</u> Multiply 3-Digits by 2-Digits

## Varied Fluency Multiply 3-Digits by 2-Digits

#### **Developing**

1a. 2,412

х	10	2
200	2,000	400
0	0	0
1	10	2

2a. 441 x 11 = 441 + 4,410 = 4,851

 $3a. 504 \times 11 = 5,544; 314 \times 21 = 6,594;$ 

314 x 21 has the larger answer.

4a. 6,594 > 3,652; 6,048 > 2,626

#### **Expected**

5a. 9,951

x	30	1
300	9,000	300
20	600	20
1	30	1

 $6a. 221 \times 13 = 663 + 2,210 = 2,873$ 

7a.  $101 \times 42 = 4,242$ ;  $316 \times 12 = 3,792$ ;

101 x 42 has the larger answer.

8a. 2,873 < 4,069; 4,343 < 6,644

#### **Greater Depth**

9a. 6,944

х	60	2
100	6,000	200
10	600	20
2	120	4

10a.  $302 \times 32 = 604 + 9,060 = 9,664$ 

11a.  $123 \times 51 = 6,273$ ;  $312 \times 26 = 8,112$ ;

312 x 26 has the larger answer.

12a. 6,944 < 20,757; 8,591 < 10,624

#### **Developing**

1b. 6,820

х	20	2
300	6,000	600
10	200	20
0	0	0

2b.  $303 \times 12 = 606 + 3,030 = 3,636$ 

3b.  $412 \times 11 = 4,532$ ;  $401 \times 22 = 8,822$ ;

402 x 22 has the larger answer.

4b. 4,532 < 8,673; 6,820 > 3,443

#### **Expected**

5b. 8,733

х	40	1
200	8,000	200
10	400	10
3	120	3

6b.  $313 \times 21 = 313 + 6,260 = 6,573$ 

7b.  $212 \times 32 = 6,784$ ;  $201 \times 35 = 7,035$ ;

201 x 35 has the larger answer.

8b. 6,996 < 8,946; 6,573 > 3,672

#### **Greater Depth**

9b. 10.761

х	50	1
200	10,000	200
10	500	10
1	50	1

10b.  $202 \times 34 = 808 + 6,060 = 6,868$ 

11b. 206 x 29 = 5,974 and  $164 \times 52 = 8,528$ ;

164 x 52 has the larger answer.

12b. 8,692 > 5,712; 9,576 < 10,761