

Multiply 4 Digits by 2 Digits

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1a. Solve the calculation below using the fully expanded method.

		1	3	1	3	
x				2	1	
<hr/>						
						(1 x 3)
						(1 x 10)
						(1 x 300)
						(1 x 1,000)
						(20 x 3)
						(20 x 10)
						(20 x 300)
						(20 x 1,000)
<hr/>						
						Total



VF

1b. Solve the calculation below using the fully expanded method.

		2	1	1	2	
x				2	3	
<hr/>						
						(3 x 2)
						(3 x 10)
						(3 x 100)
						(3 x 2,000)
						(20 x 2)
						(20 x 10)
						(20 x 100)
						(20 x 2,000)
<hr/>						
						Total



VF

2a. Match the calculations to the correct answers.

A. 4,112 x 11	1. 49,464
B. 4,122 x 12	2. 45,232
C. 2,114 x 11	3. 25,692
D. 2,141 x 12	4. 23,254



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2b. Match the calculations to the correct answers.

A. 3,141 x 21	1. 49,651
B. 3,111 x 22	2. 68,442
C. 1,211 x 41	3. 86,961
D. 2,121 x 41	4. 65,961



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3a. True or false?

$$2,111 \times 15 > 2,121 \times 14$$



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3b. True or false?

$$1,223 \times 13 = 1,224 \times 12$$



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4a. Solve the calculation using a formal multiplication method.

			3	8	0	2
x				2	3	
<hr/>						
<hr/>						
<hr/>						



VF



VF

4b. Solve the calculation using a formal multiplication method.

			6	1	2	4
x				3	1	
<hr/>						
<hr/>						
<hr/>						

5a. Match the calculations to the correct answers.

- | | |
|----------------------|-------------|
| A. $4,242 \times 23$ | 1. $50,904$ |
| B. $4,242 \times 12$ | 2. $77,064$ |
| C. $2,424 \times 25$ | 3. $97,566$ |
| D. $6,422 \times 12$ | 4. $60,600$ |



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VF

5b. Match the calculations to the correct answers.

- | | |
|----------------------|--------------|
| A. $3,212 \times 34$ | 1. $78,608$ |
| B. $2,312 \times 25$ | 2. $57,800$ |
| C. $2,312 \times 34$ | 3. $48,180$ |
| D. $3,212 \times 15$ | 4. $109,208$ |

6a. True or false?

$$7,121 \times 32 = 7,132 \times 21$$



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6b. True or false?

$$2,112 \times 34 < 3,322 \times 22$$



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Multiply 4 Digits by 2 Digits

7a. Find the missing digits and complete the calculations.

A.

		2	□	3	2
x				3	□
<hr/>					
		2	4	3	2
	7	□	□	□	□
<hr/>					
<hr/>					

B. $2,432 \times 3\square = 7\square,824$

Which gives the bigger answer?



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Multiply 4 Digits by 2 Digits

7b. Find the missing digits and complete the calculations.

A.

		2	5	□	1
x				2	6
<hr/>					
	□	5	□	6	6
	5	0	2	□	□
<hr/>					
<hr/>					

B. $2,51\square \times 26 = 65,4\square6$

Which gives the bigger answer?



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8a. Use the digit cards to complete the calculations. Match the calculations to the correct answer.

Digit cards: 2, 1, 1

A. $9,212 \times 3\square$ 1. $291,584$

B. $9,112 \times 3\square$ 2. $285,572$

C. $9,122 \times 3\square$ 3. $282,782$



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8b. Use the digit cards to complete the calculations. Match the calculations to the correct answer.

Digit cards: 3, 2, 3

A. $5,232 \times 4\square$ 1. $224,589$

B. $5,223 \times 4\square$ 2. $228,889$

C. $5,323 \times 4\square$ 3. $219,744$



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9a. Complete the statement using the digit cards to make the statement correct.

$800\square \times 13 < 86\square0 \times 12$

Digit cards: 8, 7, 1



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9b. Complete the statement using the digit cards to make the statement correct.

$82\square0 \times 68 < \square699 \times 65$

Digit cards: 0, 6, 8



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Varied Fluency Multiply 4 Digits by 2 Digits

Developing

- 1a. $1,313 \times 21 = 27,573$
 2a. A and 2; B and 1; C and 4; D and 3
 3a. True

Expected

- 4a. $3,802 \times 23 = 87,446$
 5a. A and 3; B and 1; C and 4; D and 2
 6a. False, $7,121 \times 32 = 227,872$ and
 $7,132 \times 21 = 149,772$ therefore
 $7,121 \times 32 > 7,132 \times 21$.

Greater Depth

7a.

A.

		2	4	3	2
	x			3	1
<hr/>					
		2	4	3	2
	7	2	9	6	0
<hr/>					
	7	5	3	9	2
<hr/>					
		1			

B. $2,432 \times 32 = 77,824$ so B gives the bigger answer.

8a. A and 2 ($9,221 \times 31$);

B and 1 ($9,112 \times 32$);

C and 3 ($9,122 \times 31$)

9a. $8,001 \times 13 < 8,670 \times 12$ or

$8,001 \times 13 < 8,680 \times 12$

Varied Fluency Multiply 4 Digits by 2 Digits

Developing

- 1b. $2,112 \times 23 = 48,576$
 2b. A and 4; B and 2; C and 1; D and 3
 3b. False. $1,223 \times 13 = 15,899$ and
 $1,224 \times 12 = 14,688$ therefore
 $1,223 \times 13 > 1,224 \times 12$.

Expected

- 4b. $6,124 \times 31 = 189,844$
 5b. A and 4; B and 2; C and 1; D and 3
 6b. True

Greater Depth

7b.

A.

		2	5	1	1
	x			2	6
<hr/>					
	1	5	0	6	6
		3			
	5	0	2	2	0
<hr/>					
	6	5	2	8	6
<hr/>					

B. $2,516 \times 26 = 65,416$ so B gives the bigger answer.

8b. A and 3 ($5,232 \times 42$);

B and 1 ($5,223 \times 43$);

C and 2 ($5,323 \times 43$)

9b. $8,200 \times 68 < 8,699 \times 65$