

LO: To multiply 2 digits by 1 digit

**Challenge 1**

1a. Which representation matches the calculation?

A. 

T	O
10 10	1 1
10 10	1 1
10 10	1 1
10 10	1 1

 B. 

T	O
10	1 1
10	1 1
10	1 1
10	1 1

$12 \times 4$

1b. Which representation matches the calculation?

A. 

T	O
10 10	1
10 10	1
10 10	1

 B. 

T	O
10	1 1
10	1 1
10	1 1

$21 \times 3$

2a. True or false? The calculation is correct.

10 10 10 1 1
10 10 10 1 1
10 10 10 1 1

3	2
x	3
	6
	9 0
	9 6

 $(3 \times 2)$   
 $(3 \times 30)$

2b. True or false? The calculation is correct.

10 10 10 10 1
10 10 10 10 1

4	1
x	2
	2
	6 0
	6 2

 $(2 \times 1)$   
 $(2 \times 40)$

3a. Solve the calculation.

10 10 1 1 1
10 10 1 1 1
10 10 1 1 1

2	3
x	3

$\square \times 3 = \square$

3b. Solve the calculation.

10 10 10 1 1 1 1
10 10 10 1 1 1 1

3	4
x	2

$\square \times 2 = \square$

4a. Match the calculation to the correct answer.

4	2
x	2

 $(2 \times 2)$   
 $(2 \times 40)$

10 10 10 10 1 1
10 10 10 10 1 1

4b. Match the calculation to the correct answer.

2	4
x	2

 $(2 \times 4)$   
 $(2 \times 20)$

10 10 1 1 1 1
10 10 1 1 1 1

- 48   88   84

- 84   48   68

## Challenge 2

5a. Which calculation matches the number sentence?

A.

	1	6
x		4
<hr/>		
	2	4
	4	0
	6	4

(4 x 6)

(4 x 10)

B.

	1	6
x		4
<hr/>		
	2	4
	4	0
	6	0

(4 x 6)

(4 x 10)



$16 \times 4$

VF



$17 \times 3$

VF

6a. True or false? The calculation is correct.

	4	2
x		6
<hr/>		
	1	2
	2	4
	2	5

(6 x 2)

(6 x 40)



VF



6b. True or false? The calculation is correct.

	2	3
x		8
<hr/>		
	2	4
	2	4
	2	6

(8 x 3)

(8 x 20)

VF

7a. Solve the calculation.

10	10	1	1	1
10	10	1	1	1
10	10	1	1	1
10	10	1	1	1

x		
<hr/>		



$\square \times 4 = \square$

VF



7b. Solve the calculation.

10	10	10	10	10	1	1	1	1
10	10	10	10	10	1	1	1	1
10	10	10	10	10	1	1	1	1
10	10	10	10	10	1	1	1	1

x		
<hr/>		

VF

8a. Match the calculation to the correct answer.

	5	7
x		4
<hr/>		

10	10	10	10	10	1	1	1	1	1	1	1
10	10	10	10	10	1	1	1	1	1	1	1
10	10	10	10	10	1	1	1	1	1	1	1
10	10	10	10	10	1	1	1	1	1	1	1



182

202

228

VF



8b. Match the calculation to the correct answer.

	9	6
x		2
<hr/>		

10	10	10	10	10	1	1	1	1	1	1	1
10	10	10	10	10	1	1	1	1	1	1	1
10	10	10	10	10	1	1	1	1	1	1	1
10	10	10	10	10	1	1	1	1	1	1	1

VF

192

206

198

### Challenge 3

9a. Which calculation matches the number sentence?

A.

	1	5
x		8
<hr/>		
1	2	0
<hr/>		
	4	

B.

	1	5
x		8
<hr/>		
8	4	0
<hr/>		



15 x 8

VF



16 x 7

VF

9b. Which calculation matches the number sentence?

A.

	1	6
x		7
<hr/>		
7	4	2
<hr/>		
	4	

B.

	1	6
x		7
<hr/>		
1	1	2
<hr/>		
	4	

10a. True or false? The calculation is correct.

	5	6
x		7
<hr/>		
3	5	4
<hr/>		
	4	



VF



10b. True or false? The calculation is correct.

	6	3
x		8
<hr/>		
5	0	4
<hr/>		
	2	

VF

11a. Solve the calculation.

	7	?
x		4
<hr/>		
2	?	2
<hr/>		
	1	



$$\boxed{\phantom{00}} \times 4 = \boxed{\phantom{00}}$$

VF



11b. Solve the calculation.

	?	5
x		3
<hr/>		
?	8	5
<hr/>		
	?	

$$\boxed{\phantom{00}} \times 3 = \boxed{\phantom{00}}$$

VF

12a. Use each number once to complete the calculation.

	?	2
x		6
<hr/>		
?	9	?
<hr/>		
	1	



2      4      8

VF



12b. Use each number once to complete the calculation.

	3	?
x		8
<hr/>		
?	1	2
<hr/>		
	?	

3      9      7

VF

## Extension

4a. Tony cycles 32 miles a day for 7 days and Steve cycles 38 miles for 5 days. Who cycled the furthest?

x		
<hr/>		

( x )

x		
<hr/>		

( x )

Show your working using the expanded method.



PS

4b. Carol swims 42 lengths a day for 6 days and Kelvin swims 27 lengths for 8 days. Who swam the furthest?

x		
<hr/>		

( x )

x		
<hr/>		

( x )

Show your working using the expanded method.



PS

5a. Find the missing numbers to complete the calculation.

	2	4
x		
<hr/>		
	1	

10	1	1
10	1	1
10	1	1
10	1	1
10	1	1
10	1	1
10	1	1
10	1	1



PS

5b. Find the missing numbers to complete the calculation.

	4	6
x		
<hr/>		
	1	

10	10	1	1	1
10	10	1	1	1
10	10	1	1	1
10	10	1	1	1
10	10	1	1	1
10	10	1	1	1
10	10	1	1	1
10	10	1	1	1



PS

6a. Cheryl has worked out the answer to a calculation.

10	10	10	1	1	1	1	1	1	1
10	10	10	1	1	1	1	1	1	1
10	10	10	1	1	1	1	1	1	1
10	10	10	1	1	1	1	1	1	1

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

Is she correct? Explain your answer.



R

6b. Charlie has worked out the answer to a calculation.

10	10	1	1	1	1	1	1	1	1
10	10	1	1	1	1	1	1	1	1
10	10	1	1	1	1	1	1	1	1
10	10	1	1	1	1	1	1	1	1

	2	7
x		3
<hr/>		
	8	1
	2	

Is he correct? Explain your answer.



R

## Answers

### Developing

1a. B

2a. True:  $32 \times 3 = 96$

3a.  $23 \times 3 = 69$

4a. 84

### Expected

5a. A

6a. True:  $42 \times 6 = 252$

7a.  $23 \times 4 = 92$

8a. 228

### Greater Depth

9a. A

10a. False:  $56 \times 7 = 392$

11a.  $73 \times 4 = 292$

12a.  $82 \times 6 = 492$

### Developing

1b. A

2b. False:  $41 \times 2 = 82$

3b.  $34 \times 2 = 68$

4b. 48

### Expected

5b. B

6b. False:  $23 \times 8 = 184$

7b.  $54 \times 4 = 216$

8b. 192

### Greater Depth

9b. B

10b. True:  $63 \times 8 = 504$

11b.  $95 \times 3 = 285$

12b.  $39 \times 8 = 312$

## Extension Answers

### Expected

4a. Tony cycled 224 miles while Steve only rowed 180 miles.

5a.

	2	4
x		3
	7	2
	1	

6a. Cheryl is incorrect because she has not remembered to add in her exchange.  $36 \times 4 = 144$  not 124.

### Expected

4b. Carol swam 252 lengths while Kelvin only swam 216 lengths.

5b.

	4	6
x		3
1	3	8
	1	

6b. Charlie is correct because  $3 \times 7 = 21$  and  $3 \times 20 = 60$ .  $21 + 60 = 81$ .