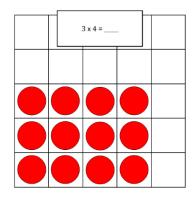
# **Build/Draw/Write to Multiply and Divide Numbers to 10**

(Note: Different problems may be represented in each progression.)

## Multiply numbers from 0 to 10 (3.OA.7a)



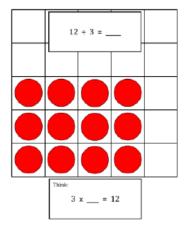
Think equal groups and skip count: "3, 6, 9, 12" or "4, 8, 12"

5 x 2 5 ft. 7 ft.

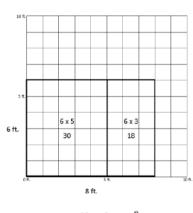
5 x 7 = \_\_35\_

Area model drawing with break-aparts at 5:

## Divide numbers by 1 to 10 (3.OA.7b)



Think multiply to divide: "3 groups of what?"



48 cupcakes...each box holds 6 cupcakes

8 boxes hold 6 cupcakes each

 $8 \times 6 = 40 + 8 = 48$ 

48 ÷ 6 = 
$$\frac{8}{5}$$
 "Think: 6 x \_\_\_ = 48"

"7 times what number equals 42?"

"4 times 5 is 20 and 4 times 2 is 8" "20 plus 8 equals 28"

 $4 \times 7 = 20 + 8 = 28$ 

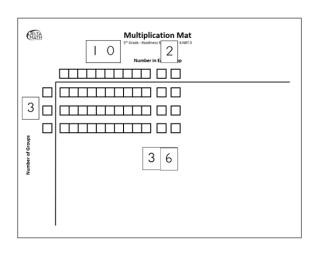
$$\begin{array}{ccc}
42 \div 7 &= & 6 \\
-35 & & & \\
7 & & & 5 & 1
\end{array}$$

Think multiply to divide: "6 groups of what...5 and 3"

# **Build/Draw/Write to Multiply Multi-digit Numbers**

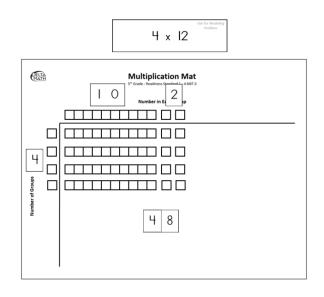
(Note: Different problems may be represented in each progression.)

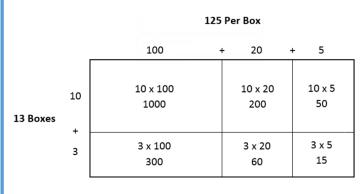
Multiply up to a 4-digit by a 1-digit number and two 2-digit numbers (4.NBT.5)



	125	per case	
	100	+ 20 -	+ 5
9 Cases	9 x 100 900	9 x 20 180	9 x 5 45

Multiply multi-digit numbers (5.NBT.5)





618 x 25	Think:
1200	(20 times 6 hundreds)
200	(20 times 1 ten)
160	(20 times 8 ones)
3000	(5 times 6 hundreds)
5 0	(5 times 1 ten)
+ 140	(5 times 8 ones)
15450	

1000

50

60 + 15 1,625

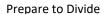
300

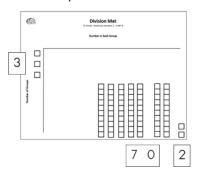
# **Build/Draw/Write to Divide Multi-digit Numbers**

(Note: Different problems may be represented in each progression.)

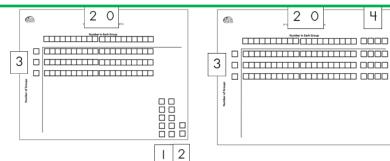
# Divide up to a 4-digit number by a 1-digit number (4.NBT.6)

3

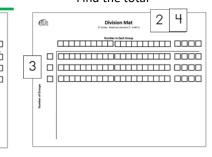




#### Find each Sub-total



#### Find the total



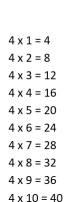
## How many are in each group? $572 = 4 \times 143$

2 0

Number in Each Group

2

10



	100	40	3
4	572 400	160	12

	3	٦	
	40		143
	100		
4)	572		
	400		
	172		
_	160		
	12		
	12		
	0		

448 ounces is 7 groups of how many?

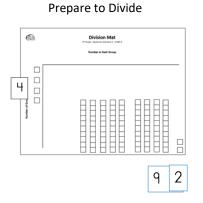


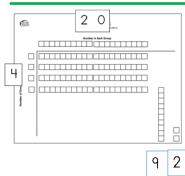
# **Build/Draw/Write to Divide Multi-digit Numbers:** 6<sup>th</sup> Grade Readiness

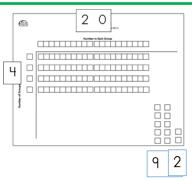
(Note: Different problems may be represented in each progression.)

### Divide 4-digit numbers (5.NBT.6)

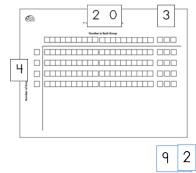


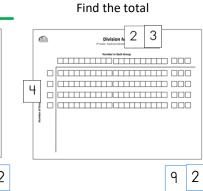






Find each Sub-total

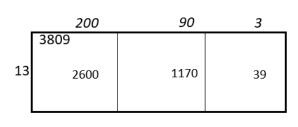




# How many are in each equal group?

13 groups of:
13 x 1 = 13
13 x 2 = 26
13 x 3 = 39
13 x 4 = 52
13 x 5 = 65
13 x 6 = 78
13 x 7 = 91
13 x 8 = 104
13 x 9 = 117

13 x 10 = 130



$$\begin{array}{c|c}
3 \\
90 \\
200
\end{array}$$

$$\begin{array}{c|c}
293 \\
\hline
13 & 3809 \\
- & 2600 \\
\hline
1209 \\
- & 1170 \\
\hline
39 \\
- & 39 \\
\hline
0
\end{array}$$

15 boxes of is 3240 total golf balls?	6 7
15 x 1 = 15	10 216
15 x 2 = 30	200
15 x 3 = 45	15) 3240
$15 \times 4 = 60$	- 3000
15 x 5 = 75	2 4 0
15 x 6 = 90	$-\frac{2}{150}$
15 x 7 = 105	90
15 x 8 = 120	- 90
15 x 9 = 135	<del>- 90</del>
15 x 10 = 150	0