

*Calculations*

*Year 4*

# Addition

## (A7: Column Addition) Additional

$$\begin{array}{r} \text{T} \quad \text{U} \\ 43 \\ + 24 \\ \hline 67 \\ \hline \end{array}$$



# (A7: Column Addition)

Additional: a

$$\begin{array}{r} \text{T} \quad \text{U} \\ 57 \\ + 25 \\ \hline 82 \\ \hline 1 \end{array}$$



# (A7: Column Addition)

Additional: b

	H	T	U
		8	6
+	4	8	
<hr/>			
1	3	4	
<hr/>			
1	1		



## A7: Column Addition

	H	T	U
	6	8	7
+	2	4	8
<hr/>			
	9	3	5
	1	1	



# A7d: Column Addition

	Th	H	T	U
	4	8	7	3
+	3	7	6	2
<hr/>				
	8	6	3	5
<hr/>				
	1	1		



# A7f: Column Addition

$$\begin{array}{r} \text{U} \quad \frac{1}{10} \\ 4.8 \\ + 3.8 \\ \hline 8.6 \\ \hline 1 \end{array}$$



# Subtraction

## MS1: Counting Back

$$46 - 21 = 25$$





# (S11: Column Subtraction)

Additional: a

$$\begin{array}{r}
 \text{T} \quad \text{U} \\
 6 \quad \quad \quad 1 \\
 \cancel{7} \quad 5 \\
 - 3 \quad 7 \\
 \hline
 3 \quad 8 \\
 \hline
 \end{array}$$



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# (S11: Column Subtraction)

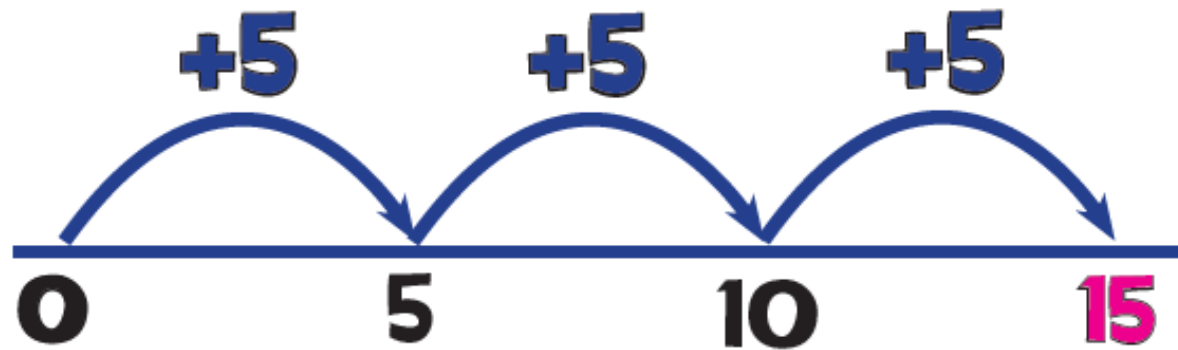
Additional:b

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 0 \quad 12 \quad 1 \\ \begin{array}{r} 132 \\ - 56 \\ \hline 76 \end{array} \end{array}$$



# Multiplication

## M2: Repeated Addition (Number Line)



$$5 \times 3 = 5 + 5 + 5 = 15$$

"5 times 3" means "5, 3 times!"



# (M7: Column Multiplication)

Additional

	H	T	U
		1	5
x			5
<hr/>			
	7	5	
<hr/>			
		2	



# M7: Column Multiplication

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 147 \\ \times \quad \quad 4 \\ \hline 588 \\ \hline 1 \quad 2 \end{array}$$



# M9: Long Multiplication

Column

	Th	H	T	U	
			4	3	
x			6	5	
<hr/>					
		2	1	5	(5 x 43)
+	2	5	8	0	(60 x 43)
		2	1		
<hr/>					
		2	7	9	5
<hr/>					

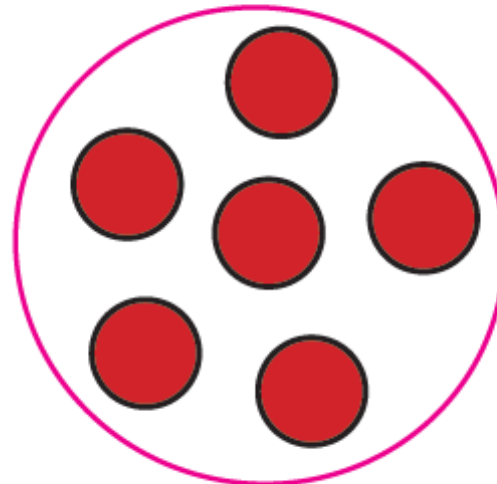
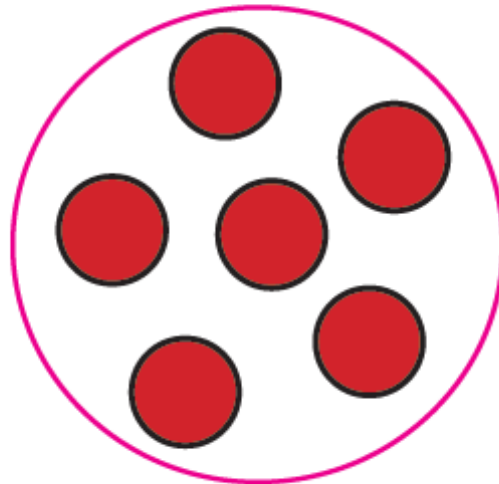


# Division

## D3: Division as Sharing

$$12 \div 2 = 6$$

"If I share 12 into 2 equal amounts, how many in each group?" Answer: 6



# (D10: Short Division)

Additional

$$72 \div 4 = 18$$

$$\begin{array}{r} 18 \\ 4 \overline{) 72} \end{array}$$





# D10: Short Division

$$136 \div 4 = 34$$

$$\begin{array}{r} 34 \\ 4 \overline{) 136} \end{array}$$



