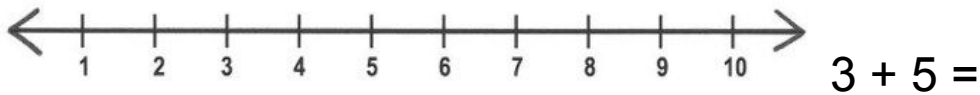


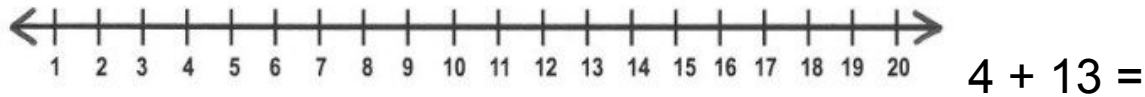
# Session Worksheet

## Addition:

Smaller jumps on a numberline:



Take a larger jump on a numberline:



Making a ten to add:

$4 + 9 = 13$  $10 + 3 = 13$	$5 + 8 = \square$  $\_ + \_ = \_$	$2 + 9 = \square$  $\_ + \_ = \_$
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Using Base 10 to add:

$12 + 23 = 52 + 17 =$

Moving on to column addition:

H	T	O

Use the place value grid above to draw in the base 10 to solve:

263 +	263 +
268	268
	1

Column Addition with larger numbers:

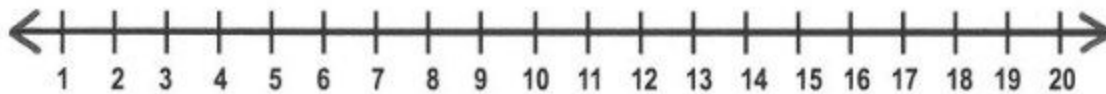
a.	7, 4 4 7	b.	3, 9 8 6
	+ 2, 9 8 7		+ 3, 9 2 0

Column addition with decimals (use column addition - don't forget to line up the decimal points):

$83.12 + 0.00660 =$ 
 $0.06266 + 0.6 =$

## Subtraction:

Take a larger jump on a numberline:



$19 - 12 =$

Moving on to column addition without regrouping:

H	T	O

Make the first number and move the second number down (subtract):

$382 - 141 =$

Column Subtraction (with regrouping and decimals):

$$\begin{array}{r} 700 \\ - 657 \\ \hline \end{array}$$

$$\begin{array}{r} 609 \\ - 195 \\ \hline \end{array}$$

$$\begin{array}{r} 670 \\ - 365 \\ \hline \end{array}$$

$$\begin{array}{r} 47.563 \\ - 32.448 \\ \hline \end{array}$$

$$\begin{array}{r} 86.969 \\ - 75.567 \\ \hline \end{array}$$

# Multiplication:

## Counting in multiples:

3. Count on in multiples of 9 from 36.

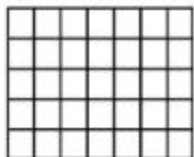
36					
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4. Count back in multiples of 7 from 70.

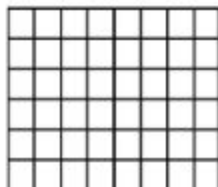
					70
--	--	--	--	--	----

## Arrays:

Directions: Color the array to find the product.



$3 \times 4 = \underline{\quad}$



$5 \times 5 = \underline{\quad}$

## Short Multiplication:

1.	$\begin{array}{r} 4,854 \\ \times \quad 5 \\ \hline \end{array}$	2.	$\begin{array}{r} 6,676 \\ \times \quad 4 \\ \hline \end{array}$	3.	$\begin{array}{r} 4,547 \\ \times \quad 2 \\ \hline \end{array}$
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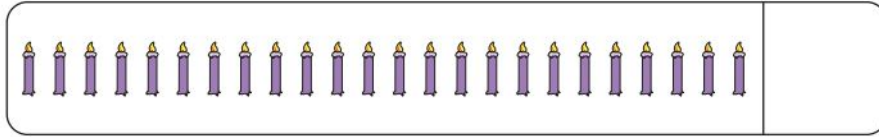
## Long Multiplication:

$\begin{array}{r} 529 \\ \times 65 \\ \hline \end{array}$	$\begin{array}{r} 279 \\ \times 86 \\ \hline \end{array}$	$\begin{array}{r} 300 \\ \times 73 \\ \hline \end{array}$
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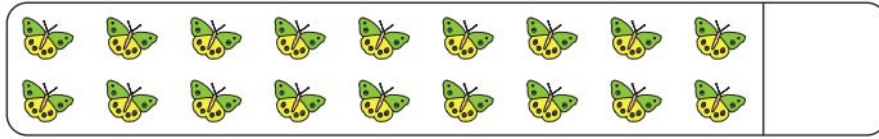
# Division:

## Dividing by putting into groups:

1) How many groups of 8?

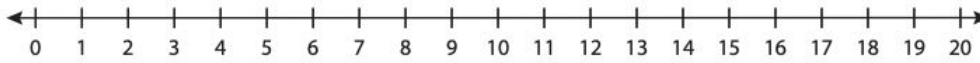


2) How many groups of 2?

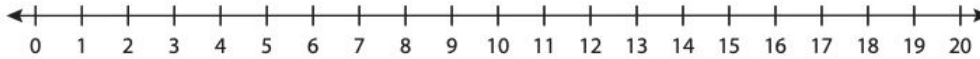


## Division using jumps on a numberline:

1)  $20 \div 5 = \underline{\quad}$



2)  $18 \div 9 = \underline{\quad}$



## Short Division (bus stop method):

1.  $2 \overline{)35}$       2.  $2 \overline{)59}$       3.  $2 \overline{)86}$       4.  $2 \overline{)49}$

## Long division:

$$43 \overline{)645}$$

Show your method

43	97
86	194
129	291

172	388
215	485
258	582
301	679
	776
	873
	970

9 7 8 8 2 7

Show  
your  
method

A large grid for showing the method of solving the problem. A smaller empty box is provided for the final answer.