Name:_____   Date:_____

Lesson 2: Subtraction Note Sheet

Vocabulary
> Subtrahend = The term being subtracted
> Minuend = The term being subtracted from
> Difference = The resulting term

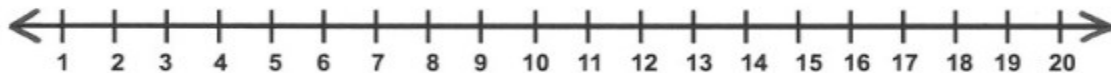**Label the subtrahend, minuend, and difference in the equation:**

$$\underline{8} - \underline{5} = \underline{3}$$

Subtraction with a Number Line

1. 9 - 4 = _____   _____ + 4 = 9

2. 17 - 9 = _____   _____ + 9 = 17

Subtracting >1-digit numbers

$$\begin{array}{r} 59 \\ -\ 23 \\ \hline \end{array} \qquad \begin{array}{r} 745 \\ -\ 267 \\ \hline \end{array} \qquad \begin{array}{r} 23753 \\ -\ 9999 \\ \hline \end{array}$$

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Properties

Verify or find a countercase for the following properties:

(# represents any operation.)

Property Name	Definition	Countercase?	Is it a property for subtraction?
Identity	a # 0= a (0 is only the identity for addition and subtraction)	___ – 0 ≠ ___	
Commutative	a # b = b # a	___ – ___ ≠ ___ – ___	
Associative	(a # b) # c = a # (b # c)	(___ –___) – ___ ≠ ___ – (___–___)	

Takeaway: Subtraction is neither_____ nor
_____!

Challenge Problems

1. 9-8+7-6+5-4+3-2+1

2. (99+98+97+96+95+94+93+...+1)+(-1-2-3-4-5-6-7-...-99)

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