

Date: _____

Chapter 3 Section A: Use the Commutative and Associative Rule (3.A.1)

Objective:

Understand the commutative and associative properties of addition, and use these to simplify calculations.

Commutative Rule: changing the order of addends does not change the sum

Q1. Add the following by using the **commutative rule** of addition.

a) 82 , 20

Way 1: _____ + _____ = _____

Way 2: _____ + _____ = _____

b) 44 , 13

Way 1: _____ + _____ = _____

Way 2: _____ + _____ = _____

c) 132 , 50

Way 1: _____ + _____ = _____

Way 2: _____ + _____ = _____

Associative Rule: the way addends are grouped does not change the sum.

Q2. Add the numbers in 3 different ways using the **associative rule of addition**. (keep the order of the addends the same)

5, 15, 25

a)

Way 1 $5 + 15 + 25 =$ [addends]

$$20 + 25 = \underline{\hspace{2cm}} \quad [\text{sum}]$$

Way 2 : $5 + 15 + 25 =$ [addends]

$$5 + 40 = \underline{\hspace{2cm}} \quad [\text{sum}]$$

Way 3 : $5 + 15 + 25 =$ [addends]

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad [\text{sum}]$$

b)

24, 4, 6

Way 1 $24 + 4 + 6 =$ [addends]

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad [\text{sum}]$$

Way 2: $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} =$ [addends]

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad [\text{sum}]$$

Way 3: $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} =$ [addends]

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \quad [\text{sum}]$$