



Chapter 11: Calculation Rules

Year 5

Worksheet A: Use the Laws of Arithmetic to Simplify Calculations

1. Use the commutative law of addition to help you add.

(a) $75 + 43 + 25 = 75 + 25 + 43$
 $= 100 + 43$
 $=$ _____

Swap the positions of 43 and 25.
 $75 + 25 = 100$
It is easier to add 100 and 43.



(b) $45 + 67 + 55 = 45 +$ _____ $+ 67$
 $=$ _____ $+ 67$
 $=$ _____

(c) $185 + 127 + 15 = 185 +$ _____ $+$ _____
 $=$ _____ $+$ _____
 $=$ _____

Swap the order of the numbers to make 200.



2. Use the associative law of addition to help you add.

(a) $149 + 150 + 150 = 149 +$ _____
 $=$ _____

The associative law says that you can add 150 and 150 first.
It is easier to add 149 and 300.

(b) $288 + 140 + 160 = 288 +$ _____
 $=$ _____



(c) $199 + 185 + 15 =$ _____ $+$ _____
 $=$ _____

3. Use the commutative law or associative law to help you add.

(a) $192 + 120 + 80$

(b) $285 + 270 + 15$