Extra Practice 9

Target B-2

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| Lesson 3.9: Order of Operations with Fractions  **1.** Evaluate.  **a)** – × ( + ) **b)** – × + **c)** ( – ) × ( + )  **2.** What do you notice about the expressions and answers in question 1? Explain.  **3.** Emma thinks the answer to 1 ÷ × is the same as the answer to 1 ÷ ( × ). Is Emma correct? Explain your thinking.  **4.** Evaluate. Show all steps.  **a)** × ( + ) –  **b)** – ( + ) ÷ 3 **c)** 4 ÷ – 3 +  **5.** Add brackets to the expression + ÷ – × , to find as many different expressions  and solutions, as you can.  + ÷ – × + ÷ – × + ÷ – ×  + ÷ – × + ÷ – × + ÷ – × |

**Extra Practice 9 Answers**

**1. a)** **b)** **c)** 

**2.**  All the answers are different. Each question has the   
same numbers in the same order with the same operations. The only difference is the placement of brackets, thus the operations are completed in a different order resulting in different answers.

**3.**  Emma is incorrect: 1 ÷ × = 4 and 1 ÷ ( × ) = 9, in the first expression division occurs before multiplication, the division results in 6 and of 4 is 6. In the second case, the multiplication is done first because of the brackets × = and ÷ = 9.

**4. a)** **b)**  **c)** 3

**5**. Possible solutions:

+ ÷ – × =

( + ) ÷ – × =

+ ÷ ( – ) × = 

(( + ÷ ) – ) × =

( + ) ÷ ( – ) × =