nnSt. Peter’s Catholic School

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Grade 3 Math Module 1 Study Guide

1. Fill in the following to make the statement true. (8 Points)



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6 + 6 + 6 + = \_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_ groups of six = \_\_\_\_\_\_\_\_\_\_

1. × \_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_
2. Draw a picture to show 4 ×2 = 8. (4 Points)
3. Caroline, Brian and Marta want to share a box of chocolates so that they each get the same amount. Circle the chocolates below to show 3 groups of 3. Then write addition and multiplication sentences to represent the problem. (12 Points)

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\_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ candies

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1. Alison collects rocks. She arranges them in 2 rows of 4. Draw Alison’s array to show how many rocks she has altogether. Then write a multiplication sentence to describe the array. (8 Points)

\_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ rocks

5.) Draw a picture to show 20 ÷ 5. Then complete the division sentence. (6 Points)

1. ÷ 5= \_\_\_\_\_\_\_\_\_\_
2. There are 16 glue sticks for the class. The teacher divides them into 4 equal groups. Draw the number of glue sticks in each group. (6 Points)

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There are \_\_\_\_\_\_\_\_\_\_\_ glue sticks in each group.

16÷ \_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_

1. Write and solve a different multiplication sentence to describe each array. (6 Points)











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* \_\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_

1. Mrs. McKeever wrote 4 x 6 = 6 x 4 on the board. Do you agree or disagree? Draw arrays to help explain your thinking. ( 8 Points)
2. Find the missing factor to make each number sentence true. (4 Points)



**6 × 2 = 2 × \_\_\_\_\_**



**\_\_\_\_\_ × 7 = 7 × 2**



**4 × \_\_\_\_\_ = 9 × 4**



**1 × 10 = \_\_\_\_\_× 1**

1. Use the distributive property to solve the following. (6 Points)

2. 8 × 3 = (4 × 3) + (4 × 3)

(\_\_\_\_\_\_ × 3) = \_\_\_\_\_\_\_\_

(\_\_\_\_\_\_ × 3) = \_\_\_\_\_\_\_

= \_\_\_\_\_\_\_\_\_\_\_\_

(4 × 3) + (4 × 3) = 12+ \_\_\_\_\_\_\_\_\_

4× 3 = \_\_\_\_\_\_\_\_\_\_

1. **Please draw a line matching each sun to the correct answer Two suns are blank. Please write how many groups of four would equal the answer. (5 Points)**

**4 × 6**

**4 × 7**

**4 44444 x44 × 8**

**4 × 9**

28

4

12

24

1. Complete the fact family. (5 Points)

4 x 3 = 12 3 x \_\_\_\_ =\_\_\_\_

12 / \_\_\_= \_\_\_\_ 12 / \_\_\_\_ =3

1. Skip count by threes. (4 Points)

3, \_\_\_\_, 9, \_\_\_\_\_, \_\_\_\_\_, 18, \_\_\_\_\_

1. Betsy pours 16 cups of water to equally fill 2 bottles. How many cups of water are in each bottle? Label the tape diagram to represent the problem, including the unknown.

\_\_\_ cups water

\_\_\_\_\_\_\_ × 2 = 16

16 ÷ 2= \_\_\_\_\_\_\_\_

There are\_\_\_\_\_\_\_\_cups in each bottle.



3. 4 × 10 = \_\_\_\_\_\_

4 × 10

3 tens + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = 4 tens

(3 × 10) + (\_\_\_\_\_\_× 10) =

\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_

× 10 = \_\_\_\_\_\_\_\_\_\_\_\_

3 × 10