Mathematics

Multiplication and Division

Nose Creek School

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

1. What is *multiplication*? Explain your answer in complete sentences.

2. How can your knowledge of 6 x 11 help you find the answer to 6 x 12? Explain your answer in complete sentences and solve.

3. Use *doubling* and *halving* to find the product or quotient.

a) 12 x 7 = b) 48 ÷ 6 =

4. Solve the following equations. Use an *array* to find your answer.

a) 3 x 5 = b) 4 x 6 =

5. Use the following digits; 3,4,7,9, to create a 2 digit by 2 digit multiplication equation. Solve and label the different parts of the equation.

6. What is *division*? Explain you answer in complete sentences.

7. How can your knowledge of 7 x 4 help you find the answer to 28 ÷ 4? Answer in complete sentences.

8. Write a multiplication fact to help you find each quotient, then solve. Explain in complete sentences why this is helpful.

a) 42 ÷ 6 = b) 58 ÷ 8 =

9. *Estimate* the following product or quotient. Explain what strategies you used to help you get your answer.

a) 73 x 48 = b) 237 ÷ 6 =

10. Use the following digits; 2,5,6,8, to create a 3 digit by 1 digit division equation. Solve and label the different parts of the equation.

11. Robert has a large collection of stamps and coins. He decided he wanted to enlarge his collection. He went to the hobby store and spent $1478 on rare stamps and coins for his collection. He bought 14 stamps for $37 each. How much did Robert spend on coins? Identify and explain what strategies you used to solve this word problem. Make sure to show your work and to provide your answer in a complete sentence. *Challenge: If each rare coin cost him $80, how many coins did he buy?*

12. There are 674 students at a Junior High school in Calgary. The school decided to have the whole school participate in a series of dodge ball games to raise money for charity. They decided to divide the students into 4 teams (red, blue, yellow, and green). Can the school be split up into 4 teams evenly? How many students will be in each group? Use long division to find your answer. Identify and explain what other strategies you used to solve this word problem. Make sure to show your work and to provide your answer in a complete sentence.

*Challenge Question*
There are 24 students in Mrs. Robert’s class. She is assigning them a group project but can’t decide how many people there should be in each group. How many different ways could she divide her class into equal groups? What strategies did you use to find your answer? Make sure to show your work and to provide your answer in a complete sentence.