MATHEMATICS – GRADE 5 WORKSHEET

Topic: Identifying Proportions and Finding Missing Terms Using Cross Multiplication

Name: _____ **Date:** _____

Grade & Section: _____ **Score:** _____ / 15

Remember: Two ratios form a proportion if their cross products are equal (product of means = product of extremes). For example, in 2 : 3 = 4 : 6, 2 × 6 = 12 and 3 × 4 = 12, so they form a proportion.

Part I. Identifying Proportions

Directions: Check (√) the blank if the two ratios form a proportion. Cross (X) if they do not.

_____ 1. 3 : 4 and 6 : 8

_____ 2. 2 : 5 and 4 : 12

_____ 3. 1 : 3 and 5 : 15

_____ 4. 6 : 9 and 4 : 6

_____ 5. 7 : 8 and 14 : 15

_____ 6. 4 : 7 and 12 : 21

_____ 7. 5 : 6 and 15 : 20

_____ 8. 9 : 12 and 3 : 4

_____ 9. 2 : 9 and 6 : 25

_____ 10. 8 : 10 and 20 : 25

Part II. Finding the Missing Numbers

Directions: Find the missing numbers. Use cross multiplication to solve the following proportions. Write your solution in your notebook.

11. 3 : 5 = N : 20

N = _____

12. 4 : N = 12 : 18

N = _____

13. N : 7 = 15 : 35

N = _____

14. 6 : 9 = 10 : N

N = _____

15. 8 : 12 = N : 9

N = _____

LIVEWORKSHEETS