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

 **Grade** 3 **Unit** 3 **Understanding Multiplication and Developing Multiplication Fact Strategies and Fluency**

Targets

A = Achieved Target

NA = Nearly Achieved Target

D = Did Not Meet Target

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| **1** | **2** | **3** | **4** |
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1. a. Draw Xs to make an array for the sum of 5 + 5 + 5.

b. Write a multiplication sentence that matches your array. Be sure to include the answer to your multiplication sentence.

2. Look at the bees.

   

  

Which equation(s) tell about the bees.

1. 3 + 3 + 3 + 3 + 3 + 3
2. 3 × 6
3. (3 x 3) + (3 x 3)
4. 3 x (5 + 1)
5. 6 × 3
6. 18 × 3
7. 18 – 3

1. Equations m, n, s, and p
2. Equations m, n, o, p and q
3. Equations n, q, and r
4. All of the above

3. Bob and Sue are solving this problem.

 There are 5 bags of cookies for sale. Each bag has 4 cookies in it. If a boy buys all the bags of cookies, how many cookies will he have in all?

Bob writes 4 + 4 + 4 + 4 + 4 =

Sue writes 5 x 4 =

Who has written a correct number sentence? Explain how you know.

**4.**

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**5.**

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**6. Mrs. Bennett sorted spools of colored thread into 4 groups. She put 5 spools of thread in each group. Draw sets to show how many spools of thread she sorted.**

**Write an addition equation to solve the problem. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Write a multiplication equation to solve the problem. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**-------------------------------------------------------------------------------------------------------T2**

**7. Lori bought gifts for her 3 brothers and 6 cousins. She bought 4 toy cars for each of her brothers, and 2 toy puzzles for each of her cousins.**

**Write an equation using *g* for the total number of gifts. Solve to find how many gifts Lori bought in all.**

**8. There are 8 pies at the bakery. Each pie is cut into 8 slices.**

**How many slices of pie are there? Show your work using a table to solve the problem.**

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**9. Logan has 5 pet rabbits. He gave each rabbit 3 carrots. How many carrots did Logan give to his rabbits in total? Using a model diagram solve the problem.**

**10. Dora bought 3 CDs and 4 books. The CDs cost $8 each and the books cost $4 each. How much did Dora spend in all? Show your work with a strategy of your choice.**

**-----------------------------------------------------------------------------------------------------T3**

**Problems 11-12**

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13. Solve the following equations.

1. x 1 = \_\_\_\_ 1 x 100 = \_\_\_ \_\_\_\_\_ x 25= 25 1 x \_\_\_\_\_= 39

14. Solve the equations below.

**a** x **c** = \_\_\_x **a** **c** x \_\_\_ = **b** x **c** **50** x **4** = **4** x \_\_\_\_

**15.**

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**16. A bank makes rolls of 40 nickels. How many nickels would be in 9 rolls?**

**17. Hawk Bluff’s 4 third grade classes collect food for a food drive. Each class collects 50 cans of food. How many cans of food are collected?**

**Problems 18 and 19**

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**20.**

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**---------------------------------------------------------------------------------------------------------T4**

 **Solve.**

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**21.**

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**Extended Constructed Response**

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