

Math 3

1-10 Problem Solving Using Units of 2-5, and 10

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| **Name:** |  | **Date:** |  |

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| **Common Core Standards** | [CCSS.MATH.CONTENT.3.OA.A.3](http://www.corestandards.org/Math/Content/3/OA/A/3/)Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.[CCSS.MATH.CONTENT.3.OA.C.7](http://www.corestandards.org/Math/Content/3/OA/C/7/)Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8 × 5 = 40, one knows 40 ÷ 5 = 8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers. |

1-10 Problem Solving Using Units of 2-5, and 10

**Problem Solving**

Identify:

What you call to the following strategies:

B

A

C

2

2

2

2

A: Array Model

B: Equal Groups Strategy

C: Tape Diagram

**Problem Solving**

Situation:

Roger has 20 pebbles. He places them equally into 10 jars.

Complete the multiplication equation:

**\_ x ? = \_**

Complete the division equation:

**\_ ÷ \_ = ?**

How many pebbles are in each jar?

Part A: Answer the following word problems using array models.

1. Archie puts 8 apples each in 3 rows. How many apples does he have? (N)
2. Loraine has 30 sandwiches. She gives equally to 6 of her friends. How many does each receive? (J)
3. Manny stacked 7 cubes each into 5 levels. How many cubes did he stack all in all? (O)

Part B: Answer the following word problems using equal groups.

1. Marian has 18 peanuts. She groups them into 9 containers. How many does each container have? (I)
2. Melissa wants to put 3 chocolate chips each on 9 cookies she will bake. How many chocolate chips does she need? (Z)
3. Dennis divides 36 oranges into 4 baskets. How many oranges are in one basket? (G)

Part C: Answer the following word problems using tape diagrams.

1. Levi drew a square with its side having a length of 5 cm. What is the total length of all sides? (M)
2. Patty cooks 5 burgers in one hour. How many will she cook in 5 hours? (B)
3. Betty put 10 candies in 1 bag. She has 5 bags. How many candies are there? (A)

Part D: Decode the Message!

All the answers to the word problems have a corresponding letter. Use the answers to find out what the code means:

50-20-50-27-2-24-9

5-35-25!

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|  | **ANSWER KEY** |
|  | **Situation**  | **10 x ? = 20****20 ÷ 10 = ?****2 pebbles** |
|  | **Part A:** |  |
|  | **1.** **= 24 apples** |  |
|  | **2.****= 5 sandwiches** |  |
|  | **3.****= 30 cubes** |  |
|  | **Part B:** |  |
|  | **1.** **= 2 peanuts** |  |
|  | **2.****= 27 chocolate chips** |  |
|  | **3.****= 9 oranges** |  |
|  | **Part C:** |  |
|  | **1.** **= 20 cm**5 cm | 5 cm5 cm5 cm |
|  | **2.****= 25 burgers** | 5 burgers5 burgers5 burgers5 burgers5 burgers |
|  | **3.****= 50 candies** | 10 candies10 candies10 candies10 candies10 candies |
|  | **Part D:** | **AMAZING JOB!** |