

Math 3

1-5 Division as an Unknown Factor:

The Number of Groups

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

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| **Common Core Standards** | [CCSS.MATH.CONTENT.3.OA.A.2](http://www.corestandards.org/Math/Content/3/OA/A/2/)Interpret whole-number quotients of whole numbers, e.g., interpret 56 ÷ 8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. *For example, describe a context in which a number of shares or a number of groups can be expressed as 56 ÷ 8.*[CCSS.MATH.CONTENT.3.OA.A.4](http://www.corestandards.org/Math/Content/3/OA/A/4/)Determine the unknown whole number in a multiplication or division equation relating three whole numbers. *For example, determine the unknown number that makes the equation true in each of the equations 8 × ? = 48, 5 = \_ ÷ 3, 6 × 6 = ?.*[CCSS.MATH.CONTENT.3.OA.B.6](http://www.corestandards.org/Math/Content/3/OA/B/6/)Understand division as an unknown-factor problem. *For example, find 32 ÷ 8 by finding the number that makes 32 when multiplied by 8.* |

1-5 Division as an Unknown Factor:

The Number of Groups

**Number of Groups**

Identify:

How many groups are there?

Answer: 4

What is the size of each group?

Answer: 3

**Number of Groups**

Situation:

Paul has 24 candies. He wants to separate them into bags with 3 candies in each bag.

Write the expression to represent the drawing above:

**\_ ÷ \_**

How many bags should he have?

Part A: Create a division expression for the following equal groups

 ÷

 ÷

 ÷

Part B: Separate the following images into the groups that have the same size

1. \_\_\_ groups of 4 diamonds

2. \_\_\_ groups of 2 peanuts









3. \_\_\_ groups of 5 birds







Part C: Draw the expression into equal groups wherein the divisor is the size of the groups and the unknown is the number of groups

1. 15 ÷ 5 = \_\_\_\_

2. 18 ÷ 9 = \_\_\_\_\_

3. 21 ÷ 3 = \_\_\_\_\_

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|  | **ANSWER KEY** |
|  | **Situation 1** | **24 ÷ 3****8 bags** |
|  | **Part A:** | **1. 35 ÷ 7****2. 24 ÷ 6****3. 27 ÷ 9** |
|  | **Part B:** |  |
|  | **1.** **= 6 groups** |  |
|  | **2.****= 5 groups** |  |
|  | **3.****= 3 groups** |  |
|  | **Part C:** |  |
|  | **1.** **= 3** |  |
|  | **2.****= 2** |  |
|  | **3.****= 7** |  |