

Math 3

1-4 Division as an Unknown Factor:

The Size of the Group

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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.* |

1-4 Division as an Unknown Factor:

The Size of the Group

**Size of the Group**

Identify:

How would you write 28 separated into 4 groups as an expression?

Answer: 28 ÷ 4

How would you write 45 ÷ 9 as a sentence?

Answer: 45 is separated into 9 groups.

**Size of the Group**

Situation:

Tyrone has 36 lollipops and wants to separate them equally into 6 containers:

Write the expression to represent the drawing above:

**\_ ÷ \_**

What is the size of each container?

Part A: Fill in each group with the correct number of items to determine the size of each group.

1. 56 ÷ 8

1. 48 ÷ 6

1. 49 ÷ 7

Part B: Encircle the correct value of the size of the group of each expression.

1. 12 ÷ 4 = 3 6

2. 18 ÷ 6 = 9 3

3. 25 ÷ 5 = 4 5

4. 27 ÷ 3 = 8 9

5. 32 ÷ 4 = 8 7

6. 42 ÷ 6 = 6 7

7. 64 ÷ 8 = 8 9

8. 28 ÷ 7 = 4 3

9. 54 ÷ 6 = 9 2

10. 16 ÷ 8 = 8 2

Part C: True or False

Encircle true if the size of the group is correct. Otherwise, shade in the circles to have the correct answer.

1. 14 ÷ 7 =

True or

2. 24 ÷ 3 =

True or

3. 20 ÷ 4 =

True or

4. 35 ÷ 5 =

True or

5. 48 ÷ 8 =

True or

6. 72 ÷ 9 =

True or

|  |  |
| --- | --- |
|  | **ANSWER KEY** |
|  | **Situation 1** | **6 lollipops** |
|  | **Part A:** |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  | **Part B:** |  |
|  | **1.**  | **3** |
|  | **2.** | **3** |
|  | **3.** | **5** |
|  | **4.**  | **9** |
|  | **5.** | **8** |
|  | **6.** | **7** |
|  | **7.**  | **8** |
|  | **8.** | **4** |
|  | **9.** | **9** |
|  | **10.**  | **2** |
|  | **Part C:** |  |
|  | **1.**  | **True** |
|  | **2.** | **True** |
|  | **3.** |  |
|  | **4.** |  |
|  | **5.**  | **True** |
|  | **6.** |  |