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Math 3

1-5 Division as an Unknown Factor: The Number of Groups

Name:		Date:	

Common Core Standards	CCSS.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

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 = ?.*

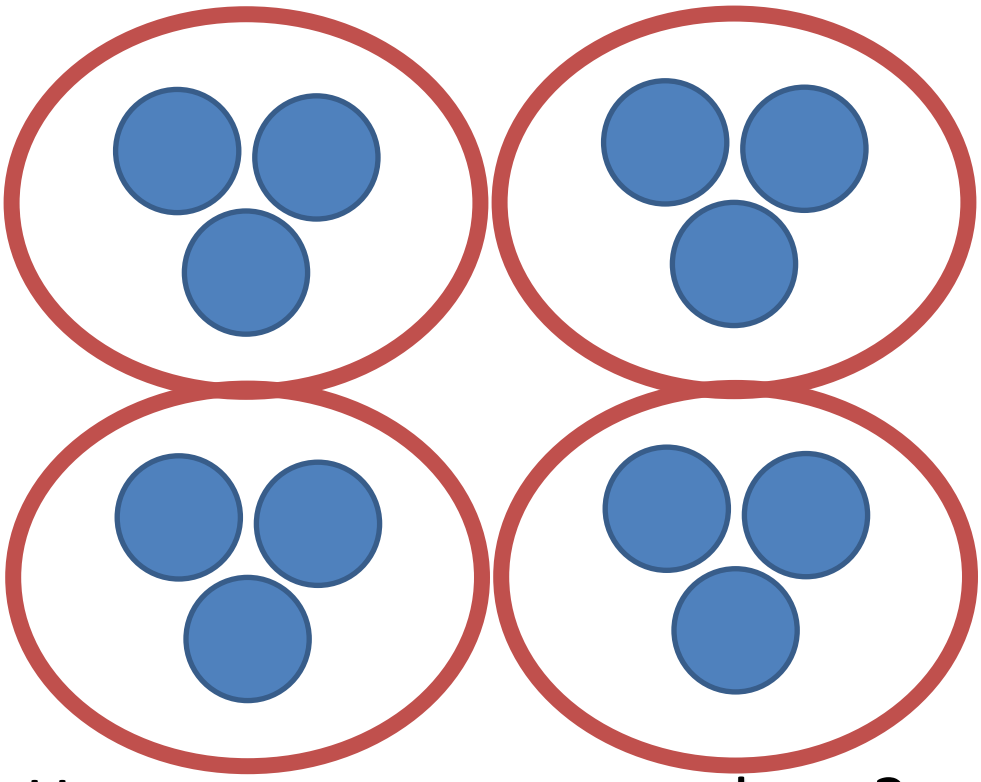
CCSS.MATH.CONTENT.3.OA.B.6

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

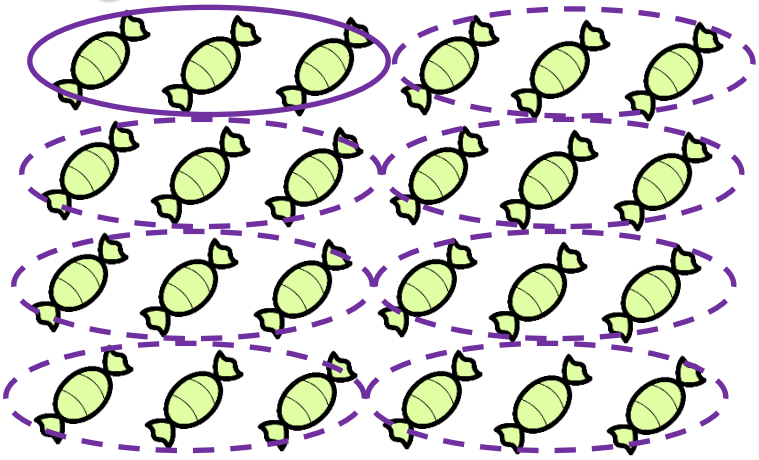
What is the size of each group?

Answer: 3

Number of Groups

Situation:

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



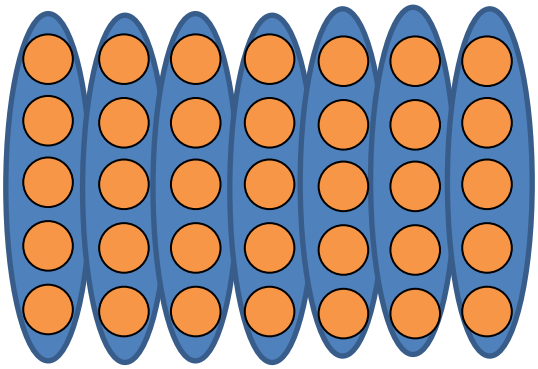
Write the expression to represent the drawing above:

$$\_ \div \_$$

How many bags should he have?

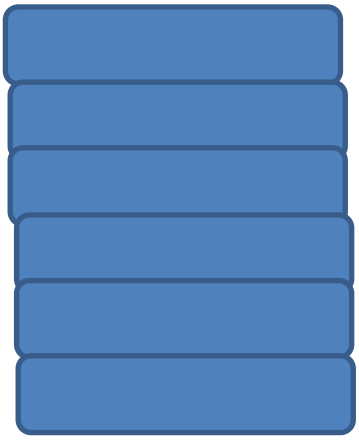
Part A: Create a division expression for the following equal groups

1.



÷

2.



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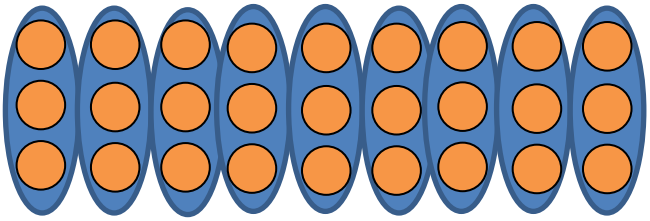
3.



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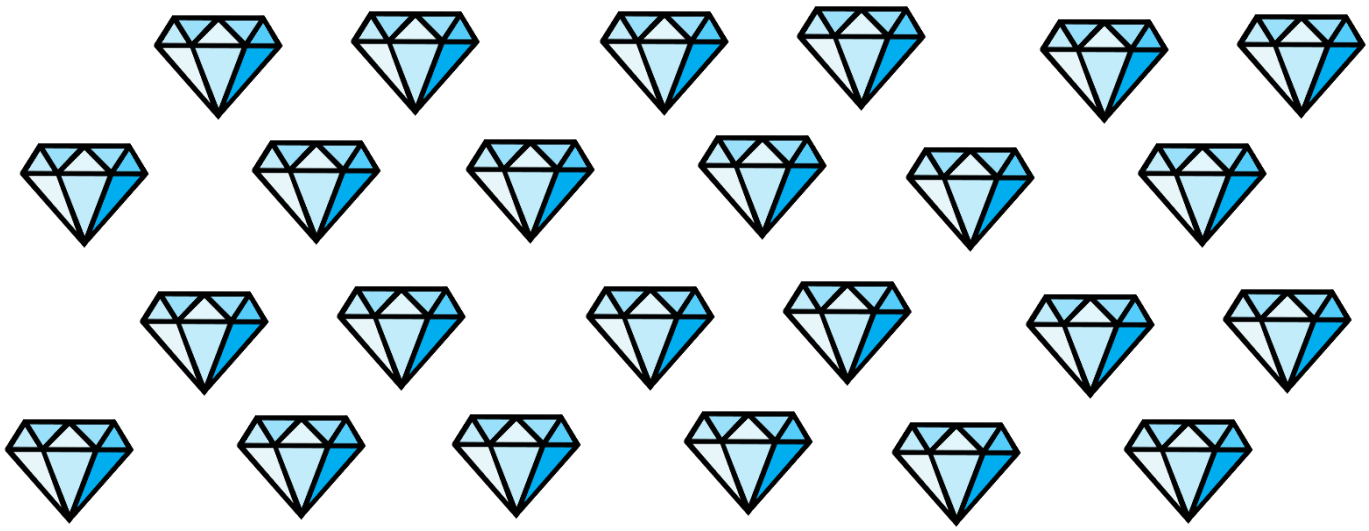
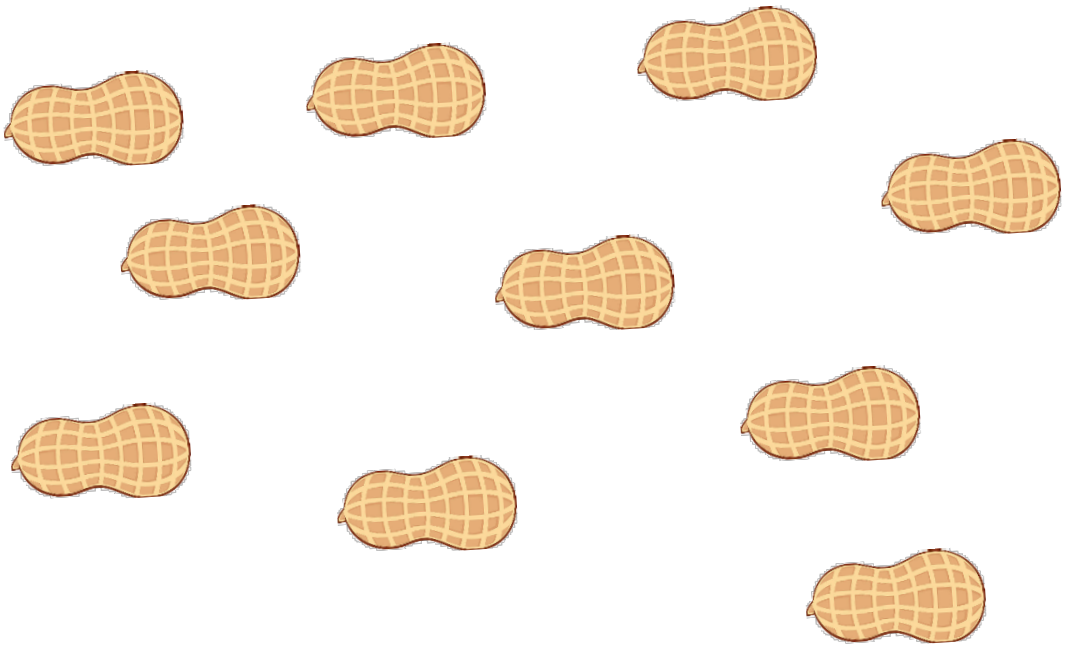
Part B: Separate the following images into the groups that have the same size

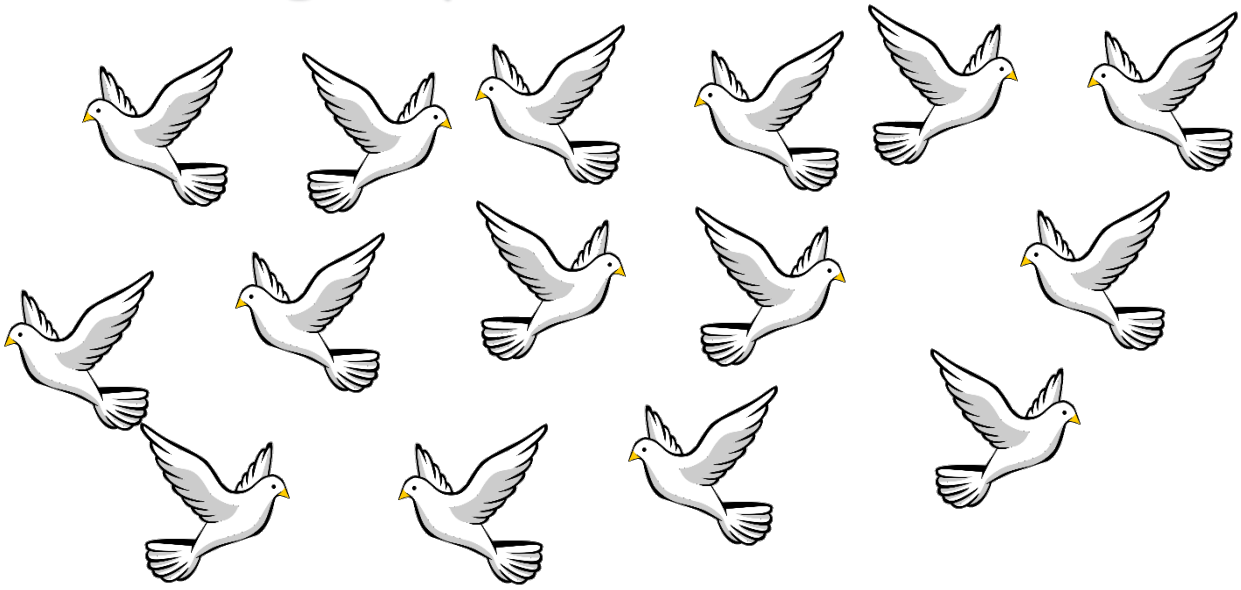
1. ____ groups of 4 diamonds



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. $18 \div 9 =$ _____

3. $21 \div 3 =$ _____

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

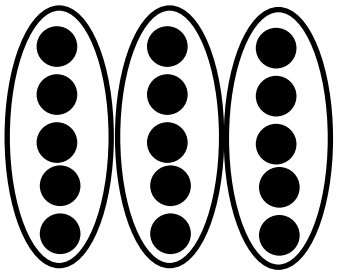
3.

= 3 groups

Part C:

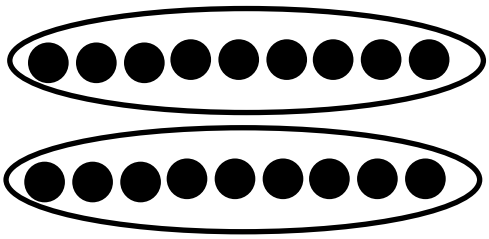
1.

= 3



2.

= 2



3.

= 7