

The Great Food Factor Adventure: Help the Kitchen Characters Find Their Groups!

Math

Grade 4

Food Theme

Help the food characters organize their ingredients and gather their friends by finding all the factors in each delicious adventure!

NAME _____

DATE _____

SCORE _____ / 8

1

Chef Carrot is hosting a big garden party and has 12 carrot sticks to share equally among all her carrot stick friends. She wants each friend to get the same amount with no sticks left over. How many different ways can she divide up the carrot sticks? List all the factors of 12.

2

Professor Pancake is stacking his fluffy pancakes into equal towers for a breakfast competition. He has 18 pancakes total and wants to make towers with the same number of pancakes in each stack. What are all the different numbers of towers he could make? Find all factors of 18.

3

Bella the Banana needs to arrange 24 banana bread loaves into rectangular displays at the bakery. Each display must have the same arrangement with no leftovers. What are all the possible number of loaves she could put in each row? Find all factors of 24.

4

Ollie the Orange is organizing a smoothie party and has 16 orange slices. He wants to put the same number of slices into cups with nothing left over. In how many different ways can he divide the orange slices? Find all factors of 16.

5

Strawberry Sam collected 20 strawberries from her garden. She wants to make jam jars with exactly the same number of strawberries in each jar. What are all the possible numbers of strawberries she could put in each jar? Find all factors of 20.

6

Cookie Carl is baking cookies for the Cookie Kingdom Festival. He made 15 chocolate chip cookies and wants to package them into gift bags with the same number of cookies in each bag and no cookies left behind. List all the ways he can do this by finding all factors of 15.

7

Tammy the Tomato is setting up tables in the vegetable garden restaurant. She has 30 tomatoes to arrange as centerpieces with the same number on each table and nothing left over. What are all the possible numbers of tomatoes she could put on each table? Find all factors of 30.

8

Poppy the Popcorn is preparing for the Snack Theater Grand Opening. She has 14 bags of popcorn and wants to arrange them into display stands with equal numbers on each stand. What are all the different ways she can arrange the popcorn bags? Find all factors of 14.

Answer Key

Math

Grade 4

For Parents and Teachers

1

Chef Carrot is hosting a big garden party and has 12 carrot sticks to share equally among all her carrot stick friends. She wants each friend to get the same amount with no sticks left over. How many different ways can she divide up the carrot sticks? List all the factors of 12.

ANSWER

1, 2, 3, 4, 6, 12 (6 different ways)

2

Professor Pancake is stacking his fluffy pancakes into equal towers for a breakfast competition. He has 18 pancakes total and wants to make towers with the same number of pancakes in each stack. What are all the different numbers of towers he could make? Find all factors of 18.

ANSWER

1, 2, 3, 6, 9, 18

3

Bella the Banana needs to arrange 24 banana bread loaves into rectangular displays at the bakery. Each display must have the same arrangement with no leftovers. What are all the possible number of loaves she could put in each row? Find all factors of 24.

ANSWER

1, 2, 3, 4, 6, 8, 12, 24

4

Ollie the Orange is organizing a smoothie party and has 16 orange slices. He wants to put the same number of slices into cups with nothing left over. In how many different ways can he divide the orange slices? Find all factors of 16.

ANSWER

1, 2, 4, 8, 16 (5 different ways)

5

Strawberry Sam collected 20 strawberries from her garden. She wants to make jam jars with exactly the same number of strawberries in each jar. What are all the possible numbers of strawberries she could put in each jar? Find all factors of 20.

ANSWER

1, 2, 4, 5, 10, 20

6

Cookie Carl is baking cookies for the Cookie Kingdom Festival. He made 15 chocolate chip cookies and wants to package them into gift bags with the same number of cookies in each bag and no cookies left behind. List all the ways he can do this by finding all factors of 15.

ANSWER

1, 3, 5, 15

7

Tammy the Tomato is setting up tables in the vegetable garden restaurant. She has 30 tomatoes to arrange as centerpieces with the same number on each table and nothing left over. What are all the possible numbers of tomatoes she could put on each table? Find all factors of 30.

ANSWER

1, 2, 3, 5, 6, 10, 15, 30

8

Poppy the Popcorn is preparing for the Snack Theater Grand Opening. She has 14 bags of popcorn and wants to arrange them into display stands with equal numbers on each stand. What are all the different ways she can arrange the popcorn bags? Find all factors of 14.

ANSWER

1, 2, 7, 14