The Great Garden Factor Quest with Farmer Fred and Friends

Math **Grade 4** **Gardening Theme**

🌱 Help Farmer Fred and his garden pals discover all the factors hidden throughout their magical vegetable kingdom!

NAME

DATE

SCORE
_____ / 8

1
Farmer Fred is planting 12 tomato seeds in his garden and wants to arrange them in equal rows. His friend Rosie the Rabbit suggests different ways to organize the rows. List all the factors of 12 so Farmer Fred knows every possible arrangement.

2
In the Sunny Sunflower Patch, Bella the Bee discovers 18 beautiful sunflowers blooming in a circle. She wants to divide them into equal groups for her honey collection. What are all the factors of 18 that Bella can use?

3
Gus the Garden Gnome is organizing 24 garden stones to create pathways through the enchanted vegetable garden. He needs to know all the different ways to make equal groups of stones. What are all the factors of 24?

4
In the Magical Corn Maze, Cornelius the Scarecrow counts 15 scarecrows standing in formation. He wants to arrange them in rows where each row has the same number of scarecrows. What are all the factors of 15?

5
Lily the Ladybug finds 20 carrots hidden in the Garden Treasure Hunt. She wants to share them equally among her beetle friends. List all the factors of 20 to show her every way to divide the carrots.

6
In the Pumpkin Patch Adventure, Petra the Pumpkin Patch Keeper has 16 enormous pumpkins ready for the Harvest Festival. She needs to arrange them in equal groups for display. What are all the factors of 16?

7

Ollie the Owl lives in the apple orchard and counts 30 ripe apples ready to pick. He wants to organize them into baskets with equal amounts per basket. What are all the factors of 30 that will help Ollie?

8

In the Wildflower Meadow, Daisy the Deer discovers 14 wildflowers and wants to create equal bunches for forest animals. What are all the factors of 14 that Daisy can use to bundle her flowers?

Answer Key

1

Farmer Fred is planting 12 tomato seeds in his garden and wants to arrange them in equal rows. His friend Rosie the Rabbit suggests different ways to organize the rows. List all the factors of 12 so Farmer Fred knows every possible arrangement.

ANSWER

1, 2, 3, 4, 6, 12

2

In the Sunny Sunflower Patch, Bella the Bee discovers 18 beautiful sunflowers blooming in a circle. She wants to divide them into equal groups for her honey collection. What are all the factors of 18 that Bella can use?

ANSWER

1, 2, 3, 6, 9, 18

3

Gus the Garden Gnome is organizing 24 garden stones to create pathways through the enchanted vegetable garden. He needs to know all the different ways to make equal groups of stones. What are all the factors of 24?

ANSWER

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

4

In the Magical Corn Maze, Cornelius the Scarecrow counts 15 scarecrows standing in formation. He wants to arrange them in rows where each row has the same number of scarecrows. What are all the factors of 15?

ANSWER

1, 3, 5, 15

5

Lily the Ladybug finds 20 carrots hidden in the Garden Treasure Hunt. She wants to share them equally among her beetle friends. List all the factors of 20 to show her every way to divide the carrots.

ANSWER

1, 2, 4, 5, 10, 20

6

In the Pumpkin Patch Adventure, Petra the Pumpkin Patch Keeper has 16 enormous pumpkins ready for the Harvest Festival. She needs to arrange them in equal groups for display. What are all the factors of 16?

ANSWER

1, 2, 4, 8, 16

7

Ollie the Owl lives in the apple orchard and counts 30 ripe apples ready to pick. He wants to organize them into baskets with equal amounts per basket. What are all the factors of 30 that will help Ollie?

ANSWER

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

8

In the Wildflower Meadow, Daisy the Deer discovers 14 wildflowers and wants to create equal bunches for forest animals. What are all the factors of 14 that Daisy can use to bundle her flowers?

ANSWER

1, 2, 7, 14