The Seasonal Factor Quest: Help Winter, Spring, Summer, and Autumn Solve Their Adventures!

Math | Grade 4 | Seasons Theme

Help the Season characters complete their magical quests by finding all the factors they need!

NAME _____ DATE _____ SCORE _____ / 8

1

Winter is decorating her ice castle with snowflake garlands. She has 12 snowflakes and wants to arrange them into equal groups for different rooms. List all the factors of 12 so she knows how many different ways she can arrange them.

2

Spring is planting flowers in her garden and has 18 tulip bulbs. She wants to plant them in rows with equal numbers of bulbs in each row. What are all the factors of 18 that will help her plan her garden layout?

3

Summer is organizing a beach party and needs to arrange 24 beach balls into equal piles for different beach stations. Find all the factors of 24 to help Summer figure out all the possible pile arrangements.

4

Autumn is gathering 16 pumpkins from her harvest to give as gifts to different families. Each family will get the same number of pumpkins. What are all the factors of 16 that show how many families could receive pumpkins?

5

Winter and Spring are working together to wrap 20 magical ice-flower gifts. They want to divide the gifts equally between their winter and spring teams. List all the factors of 20 to see all their wrapping options.

6

Summer is creating friendship bracelets with 15 colorful beads. Each bracelet needs an equal number of beads, and she wants to make multiple bracelets. What are all the factors of 15 that tell her how many different bracelet designs she can make?

7

Autumn discovers a magical tree with 30 glowing leaves. She wants to collect them in baskets with the same number of leaves in each basket. Find all the factors of 30 to determine how many different basket arrangements are possible.

8

All four Season characters are combining their treasures! They gathered 28 magical season stones total. They want to split them equally among team members. What are all the factors of 28 that show how the stones could be distributed fairly?

Answer Key

Math | Grade 4 | For Parents and Teachers

1

Winter is decorating her ice castle with snowflake garlands. She has 12 snowflakes and wants to arrange them into equal groups for different rooms. List all the factors of 12 so she knows how many different ways she can arrange them.

ANSWER

1, 2, 3, 4, 6, 12

2

Spring is planting flowers in her garden and has 18 tulip bulbs. She wants to plant them in rows with equal numbers of bulbs in each row. What are all the factors of 18 that will help her plan her garden layout?

ANSWER

1, 2, 3, 6, 9, 18

3

Summer is organizing a beach party and needs to arrange 24 beach balls into equal piles for different beach stations. Find all the factors of 24 to help Summer figure out all the possible pile arrangements.

ANSWER

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

4

Autumn is gathering 16 pumpkins from her harvest to give as gifts to different families. Each family will get the same number of pumpkins. What are all the factors of 16 that show how many families could receive pumpkins?

ANSWER

1, 2, 4, 8, 16

5

Winter and Spring are working together to wrap 20 magical ice-flower gifts. They want to divide the gifts equally between their winter and spring teams. List all the factors of 20 to see all their wrapping options.

ANSWER

1, 2, 4, 5, 10, 20

6

Summer is creating friendship bracelets with 15 colorful beads. Each bracelet needs an equal number of beads, and she wants to make multiple bracelets. What are all the factors of 15 that tell her how many different bracelet designs she can make?

ANSWER

1, 3, 5, 15

7

Autumn discovers a magical tree with 30 glowing leaves. She wants to collect them in baskets with the same number of leaves in each basket. Find all the factors of 30 to determine how many different basket arrangements are possible.

ANSWER

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

8

All four Season characters are combining their treasures! They gathered 28 magical season stones total. They want to split them equally among team members. What are all the factors of 28 that show how the stones could be distributed fairly?

ANSWER

1, 2, 4, 7, 14, 28