Mountain Peak Factor Adventures: Help the Alpine Animals Solve Their Problems

Math · Grade 4 · Mountains Theme

🏔 Join the mountain animals on their factor-finding quests and solve each adventure challenge!

NAME _____

DATE _____

SCORE _____ / 8

1 Rocky the mountain goat is organizing 12 climbing ropes into equal groups for different trails. He wants to make sure each group has the same number of ropes. What are all the different ways Rocky can divide his 12 ropes into equal groups? List all the factors of 12.

2 Bella the snow leopard found 18 shiny stones scattered across the mountain peak. She wants to arrange them into equal rows for a beautiful pattern. What are all the factors of 18 that will help Bella create different rectangular arrangements?

3 The mountain eagle family is preparing 24 pine cones for winter storage in their mountain cave. They want to split them equally among different storage boxes. List all the factors of 24 so the eagles can decide how many boxes they need.

4 Pebbles the pika is collecting 16 wildflowers from the alpine meadow to give equally to his mountain friends. What are all the factors of 16 that show how many friends he can share the flowers with?

5 A family of mountain hares is making 20 burrows in the rocky terrain, with an equal number of burrows in each section of the mountainside. What are all the factors of 20 that will help them plan their underground homes?

6 The mountain lion cubs found 15 bones buried around their den on the mountain. Their mother wants to arrange them equally on different shelves in the cave. List all the factors of 15 to help her decide her display options.

7

Snowball the arctic fox is organizing 28 ice crystals she collected from the frozen mountain lake into equal groups for her winter art project. What are all the factors of 28 that will help her create different group sizes?

8

The mountain bear is preparing 30 berries collected from the high-altitude bushes to distribute equally among his cubs. What are all the factors of 30 that show the different ways he can divide the berries?

Answer Key

Math   Grade 4   For Parents and Teachers

1

Rocky the mountain goat is organizing 12 climbing ropes into equal groups for different trails. He wants to make sure each group has the same number of ropes. What are all the different ways Rocky can divide his 12 ropes into equal groups? List all the factors of 12.

ANSWER

1, 2, 3, 4, 6, 12

2

Bella the snow leopard found 18 shiny stones scattered across the mountain peak. She wants to arrange them into equal rows for a beautiful pattern. What are all the factors of 18 that will help Bella create different rectangular arrangements?

ANSWER

1, 2, 3, 6, 9, 18

3

The mountain eagle family is preparing 24 pine cones for winter storage in their mountain cave. They want to split them equally among different storage boxes. List all the factors of 24 so the eagles can decide how many boxes they need.

ANSWER

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

4

Pebbles the pika is collecting 16 wildflowers from the alpine meadow to give equally to his mountain friends. What are all the factors of 16 that show how many friends he can share the flowers with?

ANSWER

1, 2, 4, 8, 16

5

A family of mountain hares is making 20 burrows in the rocky terrain, with an equal number of burrows in each section of the mountainside. What are all the factors of 20 that will help them plan their underground homes?

ANSWER

1, 2, 4, 5, 10, 20

6

The mountain lion cubs found 15 bones buried around their den on the mountain. Their mother wants to arrange them equally on different shelves in the cave. List all the factors of 15 to help her decide her display options.

ANSWER

1, 3, 5, 15

7

Snowball the arctic fox is organizing 28 ice crystals she collected from the frozen mountain lake into equal groups for her winter art project. What are all the factors of 28 that will help her create different group sizes?

ANSWER

1, 2, 4, 7, 14, 28

8

The mountain bear is preparing 30 berries collected from the high-altitude bushes to distribute equally among his cubs. What are all the factors of 30 that show the different ways he can divide the berries?

ANSWER

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