Dinosaur Factors Adventure: Help the Dino Crew Organize Their Expeditions!

Math | Grade 4 | Dinosaurs Theme

Join Milo, Era, and Butch on their prehistoric factor-finding missions by solving each dino adventure!

NAME _____ DATE _____ SCORE _____ / 8

1

Milo the Maiasaura is organizing a meteor expedition and needs to divide his team of 12 dinosaurs into equal groups. He wants each group to explore a different crater. What are all the possible group sizes Milo can make? (List all factors of 12)

2

Era the Triceratops discovered 18 glowing crystals in the underground cavern and wants to arrange them in equal rows for her collection display. How many different ways can she arrange these crystals in rectangular patterns? (Find all factors of 18)

3

Butch the T-Rex found 20 dinosaur eggs to protect and wants to create equal-sized nest circles around the volcano. What are all the different numbers of nests he can make with the same number of eggs in each? (List all factors of 20)

4

The dinosaur friends need to pack 24 pieces of fossilized fruit for their jungle adventure. They want to divide them equally among their travel pouches. What are all the possible numbers of pouches they could use? (Find all factors of 24)

5

Milo discovered an ancient dino-temple with 16 stone pillars arranged in a grid. He needs to know all the ways these pillars could have been arranged in equal rows and columns. What are all the factors of 16?

6

Era's research team collected 15 ancient dinosaur teeth and wants to create equal display cases for the museum. How many different display arrangements can they make? (List all factors of 15)

7

Butch the explorer found 28 dinosaur footprints leading through the canyon and wants to mark them in equal groups along the trail. What are all the different ways he can group these footprints? (Find all factors of 28)

8

The three dinosaur friends are planning a birthday feast and have 30 tasty ferns to share equally among the guests. What are all the possible numbers of guests they could invite so everyone gets the same amount? (List all factors of 30)

Answer Key

Math | Grade 4 | For Parents and Teachers

1

Milo the Maiasaura is organizing a meteor expedition and needs to divide his team of 12 dinosaurs into equal groups. He wants each group to explore a different crater. What are all the possible group sizes Milo can make? (List all factors of 12)

ANSWER

1, 2, 3, 4, 6, 12

2

Era the Triceratops discovered 18 glowing crystals in the underground cavern and wants to arrange them in equal rows for her collection display. How many different ways can she arrange these crystals in rectangular patterns? (Find all factors of 18)

ANSWER

1, 2, 3, 6, 9, 18

3

Butch the T-Rex found 20 dinosaur eggs to protect and wants to create equal-sized nest circles around the volcano. What are all the different numbers of nests he can make with the same number of eggs in each? (List all factors of 20)

ANSWER

1, 2, 4, 5, 10, 20

4

The dinosaur friends need to pack 24 pieces of fossilized fruit for their jungle adventure. They want to divide them equally among their travel pouches. What are all the possible numbers of pouches they could use? (Find all factors of 24)

ANSWER

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

5

Milo discovered an ancient dino-temple with 16 stone pillars arranged in a grid. He needs to know all the ways these pillars could have been arranged in equal rows and columns. What are all the factors of 16?

ANSWER

1, 2, 4, 8, 16

6

Era's research team collected 15 ancient dinosaur teeth and wants to create equal display cases for the museum. How many different display arrangements can they make? (List all factors of 15)

ANSWER

1, 3, 5, 15

7

Butch the explorer found 28 dinosaur footprints leading through the canyon and wants to mark them in equal groups along the trail. What are all the different ways he can group these footprints? (Find all factors of 28)

ANSWER

1, 2, 4, 7, 14, 28

8

The three dinosaur friends are planning a birthday feast and have 30 tasty ferns to share equally among the guests. What are all the possible numbers of guests they could invite so everyone gets the same amount? (List all factors of 30)

ANSWER

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