Dive Deep into Factors: An Ocean Adventure with Sea Creatures

Math   Grade 4   Ocean Theme

🌊 Help our Ocean friends solve their factoring challenges by finding all the factors for each number in their underwater quests!

NAME _____

DATE _____

SCORE _____ / 8

1

Shelly the sea turtle is organizing a treasure hunt and needs to arrange 12 golden pearls into equal groups with no pearls left over. What are all the different ways she can divide the 12 pearls? List all the factors of 12.

2

Captain Coral is gathering 18 colorful fish for his underwater parade. He wants to arrange them in equal rows where each row has the same number of fish and no fish are left out. What are all the factors of 18 that will help him?

3

Splash the dolphin found 20 shiny shells on the ocean floor and wants to create equal piles of shells for her friends. What are all the factors of 20 she can use to divide the shells fairly?

4

Ollie the octopus is planning an underwater dance party and has 24 glow-in-the-dark jellyfish to arrange in different sized circles. List all the factors of 24 to show all the circle arrangements possible.

5

Marina the mermaid is decorating her coral castle with 15 starfish. She wants to place them in equal groups around different rooms with none left over. What are all the factors of 15 that Marina can use?

6

Bubbles the fish needs to deliver 16 messages in bottles to different Ocean kingdoms. She wants to split the bottles equally among her messenger friends with no bottles remaining. What are all the factors of 16?

7

Sandy the seahorse is building a fence around her seaweed garden using 30 pieces of coral. She needs to arrange them in equal sections with no pieces left over. Find all the factors of 30 to help Sandy plan her fence.

8

Finley the flying fish is organizing an underwater sports tournament with 28 competitor teams. He wants to divide them into equal brackets with the same number of teams in each bracket and no teams left out. What are all the factors of 28?

Answer Key

1

Shelly the sea turtle is organizing a treasure hunt and needs to arrange 12 golden pearls into equal groups with no pearls left over. What are all the different ways she can divide the 12 pearls? List all the factors of 12.

ANSWER

1, 2, 3, 4, 6, 12

2

Captain Coral is gathering 18 colorful fish for his underwater parade. He wants to arrange them in equal rows where each row has the same number of fish and no fish are left out. What are all the factors of 18 that will help him?

ANSWER

1, 2, 3, 6, 9, 18

3

Splash the dolphin found 20 shiny shells on the ocean floor and wants to create equal piles of shells for her friends. What are all the factors of 20 she can use to divide the shells fairly?

ANSWER

1, 2, 4, 5, 10, 20

4

Ollie the octopus is planning an underwater dance party and has 24 glow-in-the-dark jellyfish to arrange in different sized circles. List all the factors of 24 to show all the circle arrangements possible.

ANSWER

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

5

Marina the mermaid is decorating her coral castle with 15 starfish. She wants to place them in equal groups around different rooms with none left over. What are all the factors of 15 that Marina can use?

ANSWER

1, 3, 5, 15

6

Bubbles the fish needs to deliver 16 messages in bottles to different Ocean kingdoms. She wants to split the bottles equally among her messenger friends with no bottles remaining. What are all the factors of 16?

ANSWER

1, 2, 4, 8, 16

7

Sandy the seahorse is building a fence around her seaweed garden using 30 pieces of coral. She needs to arrange them in equal sections with no pieces left over. Find all the factors of 30 to help Sandy plan her fence.

ANSWER

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

8

Finley the flying fish is organizing an underwater sports tournament with 28 competitor teams. He wants to divide them into equal brackets with the same number of teams in each bracket and no teams left out. What are all the factors of 28?

ANSWER

1, 2, 4, 7, 14, 28