Champions of Factors: A Sports Adventure

Math | Grade 4 | Sports Theme

Help your favorite sports heroes solve factor challenges as they train for the championship games!

NAME _____ DATE _____ SCORE _____ / 8

1

Soccer star Mia is organizing her team's trophy collection into equal groups. She has 24 trophies and wants to arrange them into the same number of groups for each shelf. What are all the possible ways she can divide 24 trophies equally? List all factors of 24.

2

Basketball champion LeBron is setting up training cones for his practice drills. He needs to arrange 18 cones in equal rows with no cones left over. What are all the different ways he can arrange the cones? List all factors of 18.

3

Tennis legend Serena is dividing 16 tennis balls equally among her training partners so each partner gets the same amount with none left over. How many different ways can she distribute the balls? List all factors of 16.

4

Football quarterback Patrick is organizing 30 practice footballs into equipment bags. He wants each bag to have the same number of footballs with none left over. What are all the possible numbers of bags he could use? List all factors of 30.

5

Baseball player Mike is arranging 12 baseball gloves for his youth team's equipment. He needs to put them into boxes with equal numbers of gloves in each box. What are all the different box options? List all factors of 12.

6

Gymnastics champion Simone has 20 ribbons to tie around equipment markers for her training routine. She wants to distribute them equally into groups with no ribbons left over. How many different grouping options does she have? List all factors of 20.

7

Ice hockey star Connor is organizing 28 hockey sticks into storage racks with equal numbers on each rack and no sticks left over. What are all the different ways he can arrange them? List all factors of 28.

8

Volleyball player Kerri is dividing 32 volleyballs equally among training stations with none left over. What are all the possible numbers of training stations she could set up? List all factors of 32.

Answer Key

Math | Grade 4 | For Parents and Teachers

1

Soccer star Mia is organizing her team's trophy collection into equal groups. She has 24 trophies and wants to arrange them into the same number of groups for each shelf. What are all the possible ways she can divide 24 trophies equally? List all factors of 24.

ANSWER

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

2

Basketball champion LeBron is setting up training cones for his practice drills. He needs to arrange 18 cones in equal rows with no cones left over. What are all the different ways he can arrange the cones? List all factors of 18.

ANSWER

1, 2, 3, 6, 9, 18

3

Tennis legend Serena is dividing 16 tennis balls equally among her training partners so each partner gets the same amount with none left over. How many different ways can she distribute the balls? List all factors of 16.

ANSWER

1, 2, 4, 8, 16

4

Football quarterback Patrick is organizing 30 practice footballs into equipment bags. He wants each bag to have the same number of footballs with none left over. What are all the possible numbers of bags he could use? List all factors of 30.

ANSWER

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

5

Baseball player Mike is arranging 12 baseball gloves for his youth team's equipment. He needs to put them into boxes with equal numbers of gloves in each box. What are all the different box options? List all factors of 12.

ANSWER

1, 2, 3, 4, 6, 12

6

Gymnastics champion Simone has 20 ribbons to tie around equipment markers for her training routine. She wants to distribute them equally into groups with no ribbons left over. How many different grouping options does she have? List all factors of 20.

ANSWER

1, 2, 4, 5, 10, 20

7

Ice hockey star Connor is organizing 28 hockey sticks into storage racks with equal numbers on each rack and no sticks left over. What are all the different ways he can arrange them? List all factors of 28.

ANSWER

1, 2, 4, 7, 14, 28

8

Volleyball player Kerri is dividing 32 volleyballs equally among training stations with none left over. What are all the possible numbers of training stations she could set up? List all factors of 32.

ANSWER

1, 2, 4, 8, 16, 32