LESSON MAKER PRO

Fact Family Power

Use multiplication and division facts together.

GRADE 3 · 3.OA.B

CCSS.Math.Content.3.OA.B "Understand properties of multiplication and the relationship between multiplication and division."

NAME _____ DATE _____

MULTIPLICATION AND DIVISION PARTNERS

You can use multiplication to check division. If a x b = total, then total / a = b and total / b = a. You can also change the order or grouping of factors without changing the product.

WORKED EXAMPLE

Find 28 / 4.

1. Think of a multiplication fact with 4.
2. 4 x 7 = 28.
3. So 28 / 4 = 7.

Answer: 7

PRACTICE 6 problems

1 6x9=?

ANSWER _____

2 54 / 9 = ?

ANSWER _____

3 8 x n = 56. What is n?

ANSWER _____

4 m x 5 = 35. What is m?

ANSWER _____

5 3 x 12 = ? x 3

ANSWER _____

6 2 x (10 x 5) = (2 x 10) x ?

ANSWER _____

APPLY IT Show your work

1 A video game club has 9 teams. Each team has 6 players. How many players are in the club?

WORK SPACE

ANSWER _____

2 A student has 72 stickers to share equally among 8 friends. How many stickers does each friend get?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A music club puts 3 rows of 5 chairs in each of 6 sections. The club rearranges all the chairs into 9 equal rows. How many chairs are in each row?

WORK SPACE AND ANSWER

ANSWER KEY

Fact Family Power

GRADE 3 · 3.OA.B

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	6x9=?	**54**
2	54 / 9 = ?	**6**
3	8 x n = 56. What is n?	**7**
4	m x 5 = 35. What is m?	**7**
5	3 x 12 = ? x 3	**12**
6	2 x (10 x 5) = (2 x 10) x ?	**5**

PART 2 · APPLY IT

1. **54 players** Multiply 9 x 6 to find the total number of players. 9 x 6 = 54.
2. **9 stickers** Divide 72 by 8 to find how many stickers each friend gets. 72 / 8 = 9.

CHALLENGE

10 chairs in each row

Accept equivalent equations that show the same multiplication or division relationship. For the challenge, students may multiply 3 x 5 x 6 to get 90, then divide 90 by 9.