LESSON MAKER PRO

Fact Family Quest

Use multiplication and division facts to solve problems.

GRADE 4 · 4.N.2.1

4.N.2.1 "Demonstrate fluency with multiplication and division facts with factors up to 12."

NAME _____ DATE _____

THE BIG IDEA

Multiplication and division are related. When you know a multiplication fact, you can use it to solve a division fact with the same numbers.

WORKED EXAMPLE

Find 4 x 7 and 28 / 7.

1. Add 7 four times: 7 + 7 + 7 + 7 = 28.
2. So 4 x 7 = 28.
3. Since four groups of 7 make 28, 28 / 7 = 4.

Answer: 4 x 7 = 28; 28 / 7 = 4

PRACTICE 6 problems

1 9 x 8 = ___

ANSWER _____

2 108 / 12 = ___

ANSWER _____

3 ___ x 11 = 66

ANSWER _____

4 11 x 11 = ___

ANSWER _____

5 96 / 8 = ___

ANSWER _____

6 12 x ___ = 60

ANSWER _____

APPLY IT Show your work

1 At a class game, 8 teams each earn 12 tickets. How many tickets do the teams earn altogether?

WORK SPACE

ANSWER _____

2 A group packs 90 glow sticks into bags of 10 for a school dance. How many bags do they fill?

WORK SPACE

ANSWER _____

CHALLENGE One step up

At a game club, 12 teams have 6 players each. All the players then form 8 equal groups. How many players are in each group? Show two equations.

WORK SPACE AND ANSWER

ANSWER KEY

Fact Family Quest

GRADE 4 · 4.N.2.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	9 x 8 = ___	**72**
2	108 / 12 = ___	**9**
3	___ x 11 = 66	**6**
4	11 x 11 = ___	**121**
5	96 / 8 = ___	**12**
6	12 x ___ = 60	**5**

PART 2 · APPLY IT

1. **96 tickets** Multiply the number of teams by the tickets each team earns: 8 x 12 = 96.
2. **9 bags** Divide the total number of glow sticks by the number in each bag: 90 / 10 = 9.

CHALLENGE

12 x 6 = 72; 72 / 8 = 9. There are 9 players in each group.

For the challenge, accept either multiplication order in the first equation. The second equation must show 72 players divided into 8 equal groups.