LESSON MAKER PRO

Missing Number Moves

Use related facts to make each number sentence true.

GRADE 4 · 4.A.2.1

4.A.2.1 "Use the relationships between multiplication and division with the properties of multiplication to solve problems and find values for variables that make number sentences true."

NAME _____ DATE _____

THE BIG IDEA

Multiplication and division undo each other. When a number is missing, use a related fact to find it. You can also switch or group factors without changing a product.

WORKED EXAMPLE

There are 4 teams with 9 players on each team. Complete ____ / 4 = 9.

1. Find the total: 4 × 9 = 36.
2. Check with division: 36 / 4 = 9.

Answer: ___ = 36

PRACTICE 6 problems

1 Fill in the blank: 6 × ___ = 42.

ANSWER _____

2 Fill in the blank: ___ / 8 = 5.

ANSWER _____

3 Fill in the blank: 56 / ___ = 7.

ANSWER _____

4 Fill in the blank: 3 × 12 = 12 × ___.

ANSWER _____

5 Fill in the blank: (2 × 5) × 11 = 2 × (___ × 11).

ANSWER _____

6 Fill in the blank: 80 / 8 = ___ × 5.

ANSWER _____

APPLY IT Show your work

1 A class puts 60 stickers equally into 6 prize bags. Write a multiplication sentence using ___ for the stickers in each bag. Then find ___.

WORK SPACE

ANSWER _____

2 A game shop puts 77 trading cards equally into 11 packs. Write a division sentence using ___ for the cards in each pack. Then find ___.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A club puts 72 game cards equally into 8 boxes. The cards in each box are then shared equally among 3 players. Write one division sentence and one multiplication sentence using ___ for the cards each player gets. Then find ___.

WORK SPACE AND ANSWER

ANSWER KEY

Missing Number Moves

GRADE 4 · 4.A.2.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Fill in the blank: 6 × ___ = 42.	**7**
2	Fill in the blank: ___ / 8 = 5.	**40**
3	Fill in the blank: 56 / ___ = 7.	**8**
4	Fill in the blank: 3 × 12 = 12 × ___.	**3**
5	Fill in the blank: (2 × 5) × 11 = 2 × (___ × 11).	**5**
6	Fill in the blank: 80 / 8 = ___ × 5.	**2**

PART 2 · APPLY IT

1. **6 × ___ = 60; ___ = 10** Divide 60 by 6 to find 10 stickers in each bag.
2. **77 / 11 = ___; ___ = 7** Divide 77 by 11 to find 7 cards in each pack.

CHALLENGE

72 / 8 / 3 = ___; (8 × 3) × ___ = 72; ___ = 3

Accept factors in either order in correct multiplication sentences. For the challenge, 72 / (8 × 3) = ___ is also a correct division sentence.