LESSON MAKER PRO

Find the Missing Factor

Use multiplication facts to solve division problems.

GRADE 3 · MT.3.OA.6

MT.3.OA.6 "Use division as an unknown factor problem."

NAME _____ DATE _____

DIVISION HAS A PARTNER

To solve a division problem, think of a multiplication fact with a missing factor. For example, if a total is split into equal groups, multiply the number of groups by the amount in each group to get the total.

WORKED EXAMPLE

21 / 3 = ____

1. Write the related multiplication fact: 3 × ___ = 21.
2. Find the missing factor: 3 × 7 = 21.
3. So, 21 / 3 = 7.

Answer: 7

PRACTICE 6 problems

1 18 / 2 = ___

ANSWER _____

2 24 / 4 = ___

ANSWER _____

3 40 / 8 = ___

ANSWER _____

4 36 / ___ = 4

ANSWER _____

5 64 / 8 = ___

ANSWER _____

6 54 / ___ = 9

ANSWER _____

APPLY IT Show your work

1 You have 32 trading cards to share equally with 4 friends. How many cards does each friend get?

WORK SPACE

ANSWER _____

2 A game store puts 60 stickers into bags with 10 stickers in each bag. How many bags does the store fill?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A class has 48 game cards in 6 equal packs. They give away 2 packs. How many cards are left? Write a multiplication fact that helps you find the number of cards in each pack.

WORK SPACE AND ANSWER

ANSWER KEY

Find the Missing Factor

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	18 / 2 = ___	**9**
2	24 / 4 = ___	**6**
3	40 / 8 = ___	**5**
4	36 / ___ = 4	**9**
5	64 / 8 = ___	**8**
6	54 / ___ = 9	**6**

PART 2 · APPLY IT

1. **8 cards** Use 4 × ___ = 32. Since 4 × 8 = 32, each friend gets 8 cards.
2. **6 bags** Use 10 × ___ = 60. Since 10 × 6 = 60, the store fills 6 bags.

CHALLENGE

32 cards are left. Since 6 × 8 = 48, each pack has 8 cards. After giving away 2 packs, 4 packs remain, and 4 × 8 = 32.

For the challenge, accept any correct multiplication fact that shows there are 8 cards in each pack, along with 32 cards left.