LESSON MAKER PRO

Fact Flip

Use related facts to find missing numbers.

GRADE 4 · 4.NOS.C.7.d

4.NOS.C.7.d "Use the inverse relationship between multiplication and division (e.g., think of 4 × ? = 28 to solve 28 ÷ 4 = ?) to multiply and divide."

NAME _____ DATE _____

THE BIG IDEA

Multiplication and division undo each other. To divide, think of a multiplication fact with a missing factor. To check a multiplication answer, divide the product by one of its factors.

WORKED EXAMPLE

Find 72 ÷ 9.

1. Write the related multiplication fact: 9 × ___ = 72.
2. Think: 9 × 8 = 72.
3. So 72 ÷ 9 = 8.

Answer: 8

PRACTICE 6 problems

1 Use multiplication to find 48 ÷ 4 = ___.

ANSWER _____

2 Use division to find 4 × ___ = 44.

ANSWER _____

3 Use multiplication to find 63 ÷ 3 = ___.

ANSWER _____

4 Use division to find 5 × ___ = 65.

ANSWER _____

5 Use multiplication to find 84 ÷ 12 = ___.

ANSWER _____

6 Use division to find ___ × 11 = 66.

ANSWER _____

APPLY IT Show your work

1 Five friends split 60 arcade tickets evenly. How many tickets does each friend get? Write a multiplication fact that shows how you know.

WORK SPACE

ANSWER _____

2 A collector has 11 packs of trading cards with 14 cards in each pack. How many cards does the collector have? Check your answer with division.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Priya earns the same number of points for each game level she finishes. She earns 96 points after 4 levels. How many points will she earn after 7 levels? Explain using a division fact and multiplication facts.

WORK SPACE AND ANSWER

ANSWER KEY

Fact Flip

GRADE 4 · 4.NOS.C.7.d

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use multiplication to find 48 ÷ 4 = ___.	**12**
2	Use division to find 4 × ___ = 44.	**11**
3	Use multiplication to find 63 ÷ 3 = ___.	**21**
4	Use division to find 5 × ___ = 65.	**13**
5	Use multiplication to find 84 ÷ 12 = ___.	**7**
6	Use division to find ___ × 11 = 66.	**6**

PART 2 · APPLY IT

1. **12 tickets; 5 × 12 = 60.** Find the missing factor in 5 × ___ = 60. Each friend gets 12 tickets.
2. **154 cards; 154 ÷ 11 = 14.** Multiply 11 × 14 = 154. Dividing 154 by 11 gives 14, the number of cards in each pack.

CHALLENGE

96 ÷ 4 = 24 because 4 × 24 = 96. Then 7 × 24 = 168, so Priya will earn 168 points after 7 levels.

Accept any correct related multiplication or division fact when students show their work. In the challenge, students must find the points per level before finding the total for 7 levels.