LESSON MAKER PRO

# Fact Family Quest

*Use multiplication facts to solve division problems.*

**GRADE 3 · MT.3.OA.7**

**MT.3.OA.7** "Flexibly, accurately, and efficiently multiply and divide within 100, using strategies such as the relationship between multiplication and division."

NAME _____ DATE _____

## TURN IT AROUND

Multiplication and division are connected. To solve a division problem, think of the multiplication fact that uses the same numbers.

## WORKED EXAMPLE

Use a multiplication fact to solve 72 / 9 = ____.

1. Think: 9 x ___ = 72.
2. 9 x 8 = 72.
3. So 72 / 9 = 8.

**Answer: 8**

## PRACTICE 6 problems

**1** 4 x 7 = ___

**ANSWER** _____

**2** 50 / 10 = ___

**ANSWER** _____

**3** ___ x 3 = 21

**ANSWER** _____

**4** Fill in both blanks: 5 x ___ = 30 and 30 / 5 = ___.

**ANSWER** _____

_____

**5** A student says 36 / 3 = 11. Write the correct answer and a multiplication fact that proves it.

**ANSWER** _____

_____

**6** ___ / 4 = 10

**ANSWER** _____

## APPLY IT Show your work

**1** At a school fair, 30 game tickets are shared equally among 3 friends. How many tickets does each friend get?

WORK SPACE

**ANSWER** _____

**2** In a video game, 7 players each earn 5 points. How many points do they earn in all?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

A team packs 60 trading cards equally. Each pack holds more than 5 cards but fewer than 10 cards. How many packs do they make? Explain with a multiplication fact.

WORK SPACE AND ANSWER

**ANSWER KEY**

# Fact Family Quest

**GRADE 3 · MT.3.OA.7**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | 4 x 7 = ___ | **28** |
| 2 | 50 / 10 = ___ | **5** |
| 3 | ___ x 3 = 21 | **7** |
| 4 | Fill in both blanks: 5 x ___ = 30 and 30 / 5 = ___. | **6 in both blanks** |
| 5 | A student says 36 / 3 = 11. Write the correct answer and a multiplication fact that proves it. | **12; 3 x 12 = 36** |
| 6 | ___ / 4 = 10 | **40** |

## PART 2 · APPLY IT

1. **10 tickets** 30 / 3 = 10 because 3 x 10 = 30.
2. **35 points** 7 x 5 = 35.

## CHALLENGE

**10 packs. Each pack holds 6 cards because 10 x 6 = 60.**

For the correction problem, accept 12 x 3 = 36 as the proof. For the challenge, accept any explanation showing that 6 cards per pack gives 10 equal packs.