

Fact Family Power

Use multiplication to unlock division facts.

GRADE 3 • NY-3.OA.7.a

NY-3.OA.7.a "Fluently solve single-digit multiplication and related divisions, using strategies such as the relationship between multiplication and division or properties of operations."

NAME _____

DATE _____

CONNECTED FACTS

Multiplication and division are connected. If you know a multiplication fact, you can use it to solve a related division fact because division undoes multiplication.

WORKED EXAMPLE

Solve 7×8 . Then use the product to solve $56 \div 7$.

1. Multiply: $7 \times 8 = 56$.

2. Use 56 as the total.

3. Divide: $56 \div 7 = 8$.

Answer: $7 \times 8 = 56$; $56 \div 7 = 8$

PRACTICE 6 problems

1 Solve: $6 \times 9 = \underline{\hspace{2cm}}$

ANSWER _____

2 Use $6 \times 9 = 54$. Solve: $54 \div 6 = \underline{\hspace{2cm}}$

ANSWER _____

3 Use $6 \times 9 = 54$. Solve: $54 \div 9 = \underline{\hspace{2cm}}$

ANSWER _____

4 Solve: $5 \times 5 = \underline{\hspace{2cm}}$

ANSWER _____

5 Solve: $25 \div 5 = \underline{\hspace{2cm}}$

ANSWER _____

6 Fill in both blanks: $2 \times 10 = \underline{\hspace{2cm}}$; $\underline{\hspace{2cm}} \div 2 = 10$.

ANSWER _____

APPLY IT Show your work

- 1** At game club, there are 4 tables with 9 game cards on each table. How many game cards are there altogether?

WORK SPACE

ANSWER _____

- 2** A group has 24 friendship bracelets to share equally among 4 friends. How many bracelets does each friend get?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Three teams have the same number of players. There are 27 players altogether. Explain how multiplication can help you find the number of players on each team. Then give the number.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Solve: $6 \times 9 = \underline{\quad}$	54
2	Use $6 \times 9 = 54$. Solve: $54 \div 6 = \underline{\quad}$	9
3	Use $6 \times 9 = 54$. Solve: $54 \div 9 = \underline{\quad}$	6
4	Solve: $5 \times 5 = \underline{\quad}$	25
5	Solve: $25 \div 5 = \underline{\quad}$	5
6	Fill in both blanks: $2 \times 10 = \underline{\quad}$; $\underline{\quad} \div 2 = 10$.	20; 20

PART 2 • APPLY IT

1. **36 game cards** Multiply 4×9 to find the total number of game cards. $4 \times 9 = 36$.
2. **6 bracelets** Divide 24 by 4 to find the number in each equal group. $24 \div 4 = 6$.

CHALLENGE

Since $3 \times 9 = 27$, $27 \div 3 = 9$, so each team has 9 players.

Accept correct equations written in either order when they show the related multiplication and division facts. For the challenge, accept any clear explanation that uses $3 \times 9 = 27$ or $27 \div 3 = 9$.