

Fact Flash Challenge

Use multiplication facts to solve quickly and accurately.

GRADE 3 • NY-3.OA.7.b

NY-3.OA.7.b "Know from memory all products of two one-digit numbers."

NAME _____

DATE _____

KNOW YOUR FACTS

A multiplication fact tells the total in equal groups. Learn the products of one-digit factors so you can solve quickly without counting each item.

WORKED EXAMPLE

Find 7×8 .

1. Write the fact as 7 groups of 8.
2. Use 5 groups of 8: $5 \times 8 = 40$.
3. Add 2 more groups: $2 \times 8 = 16$, so $40 + 16 = 56$.

Answer: 56

PRACTICE 6 problems

1 Find 2×9 .

ANSWER _____

2 Find 3×6 .

ANSWER _____

3 Find 4×5 .

ANSWER _____

4 Find 9×9 .

ANSWER _____

5 Find 6×6 .

ANSWER _____

6 Find 3×4 .

ANSWER _____

APPLY IT Show your work

- 1** An arcade has 5 prize bags. Each bag has 6 trading cards. How many trading cards are there altogether?

WORK SPACE

ANSWER _____

- 2** Four soccer teams each have 9 players. How many players are on the teams altogether?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Lina knows that $4 \times 6 = 24$. Write the turn-around fact. Then explain why it has the same product.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Find 2×9 .	18
2	Find 3×6 .	18
3	Find 4×5 .	20
4	Find 9×9 .	81
5	Find 6×6 .	36
6	Find 3×4 .	12

PART 2 • APPLY IT

1. **30 trading cards** Multiply the number of bags by the cards in each bag: $5 \times 6 = 30$.
2. **36 players** Multiply the number of teams by the players on each team: $4 \times 9 = 36$.

CHALLENGE

$6 \times 4 = 24$. The same 24 objects can be arranged in 4 rows of 6 or 6 rows of 4.

Accept multiplication expressions with or without the multiplication sign if the product is correct. For the challenge, accept an explanation that changing the order of the factors does not change the total.