

Fact Strategy Sprint

Use smart strategies to solve multiplication facts.

GRADE 3 • 3.CE.2.d

3.CE.2.d "Demonstrate fluency with multiplication facts through 10×10 by applying reasoning strategies (e.g., doubling, add-a-group, subtract-a-group, near squares, and inverse relationships)."

NAME _____

DATE _____

BUILD FROM WHAT YOU KNOW

When a fact is close to an easier fact, make the easier fact first. Then add or subtract one equal group. You can also double a fact you know or use a related division fact to check your answer.

WORKED EXAMPLE

$$9 \times 9 = \underline{\quad}$$

1. Start with 10 groups of 9: $10 \times 9 = 90$.
2. Subtract 1 group of 9: $90 - 9 = 81$.
3. So, $9 \times 9 = 81$.

Answer: 81

PRACTICE 6 problems

1 Use doubling: $4 \times 8 = \underline{\quad}$

ANSWER _____

2 Use add-a-group: $6 \times 7 = \underline{\quad}$

ANSWER _____

3 Use subtract-a-group: $8 \times 5 = \underline{\quad}$

ANSWER _____

4 Use a near square: $5 \times 6 = \underline{\quad}$

ANSWER _____

5 Use this related fact: $28 \div 4 = 7$. Then $4 \times 7 = \underline{\quad}$

ANSWER _____

6 Choose a strategy: $3 \times 8 = \underline{\quad}$

ANSWER _____

APPLY IT Show your work

- 1** Mia has 7 packs of trading cards. Each pack has 5 cards. How many trading cards does Mia have?

WORK SPACE

ANSWER _____

- 2** A game club sets up 6 rows of 8 beanbag toss targets. How many targets are set up?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A bracelet maker puts 8 beads on each of 7 bracelets. Sam says $7 \times 8 = 54$ because $7 \times 7 = 49$ and one more group of 7 makes 54. Is Sam correct? Explain and write the correct total.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Use doubling: $4 \times 8 = \underline{\quad}$	32
2	Use add-a-group: $6 \times 7 = \underline{\quad}$	42
3	Use subtract-a-group: $8 \times 5 = \underline{\quad}$	40
4	Use a near square: $5 \times 6 = \underline{\quad}$	30
5	Use this related fact: $28 \div 4 = 7$. Then $4 \times 7 = \underline{\quad}$	28
6	Choose a strategy: $3 \times 8 = \underline{\quad}$	24

PART 2 • APPLY IT

1. **35 trading cards** Multiply 7 groups of 5. $7 \times 5 = 35$.
2. **48 targets** Multiply 6 rows by 8 targets in each row. $6 \times 8 = 48$.

CHALLENGE

No. $7 \times 7 = 49$, and $49 + 7 = 56$, so $7 \times 8 = 56$.

Accept any valid reasoning strategy that gives the correct product. For word problems, accept answers with or without the unit if the product is correct.