

Multiply and Share

Use groups, arrays, jumps, and facts to solve.

GRADE 3 • 3.CE.2.a

3.CE.2.a "Represent multiplication and division of whole numbers through 10×10 , including in a contextual situation, using a variety of approaches and models (e.g., repeated addition/subtraction, equal-sized groups/sharing, arrays...)"

NAME _____

DATE _____

EQUAL GROUPS

Multiplication finds the total in equal groups. Division splits a total into equal groups or finds how many equal groups can be made. You can use repeated addition, arrays, skip counting, or equal jumps to show your thinking.

WORKED EXAMPLE

Find 7×8 using repeated addition.

1. 7 groups of 8 means add 8 seven times.

2. $8 + 8 + 8 + 8 + 8 + 8 + 8 = 56$.

3. $7 \times 8 = 56$.

Answer: 56

PRACTICE 6 problems

- 1** Write repeated addition and solve: 3 groups of 4.

ANSWER _____

- 2** Skip count by 6 for 5 jumps. Then write the multiplication fact.

ANSWER _____

- 3** An array has 9 rows with 2 squares in each row. How many squares are there?

ANSWER _____

- 4** Share 30 stickers equally among 6 friends. How many stickers does each friend get?

ANSWER _____

- 5** Start at 45 and make equal jumps back by 5 until you reach 0. How many jumps do you make?

ANSWER _____

- 6** Make equal groups of 9 from 36 shells. How many groups can you make?

ANSWER _____

APPLY IT Show your work

- 1** Maya buys 4 packs of trading cards. Each pack has 6 cards. How many trading cards does Maya buy?

WORK SPACE

ANSWER _____

- 2** A class has 54 photos to put into 9 scrapbook pages. If each page gets the same number of photos, how many photos go on each page?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A game club has 10 bags with 6 marbles in each bag. The club shares all the marbles equally among 5 players. How many marbles does each player get? Show a multiplication equation and a division equation.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write repeated addition and solve: 3 groups of 4.	$4 + 4 + 4 = 12$; $3 \times 4 = 12$
2	Skip count by 6 for 5 jumps. Then write the multiplication fact.	6, 12, 18, 24, 30 ; $6 \times 5 = 30$
3	An array has 9 rows with 2 squares in each row. How many squares are there?	18
4	Share 30 stickers equally among 6 friends. How many stickers does each friend get?	5
5	Start at 45 and make equal jumps back by 5 until you reach 0. How many jumps do you make?	9
6	Make equal groups of 9 from 36 shells. How many groups can you make?	4

PART 2 • APPLY IT

- 24 trading cards** Multiply the 4 equal packs by 6 cards in each pack. $4 \times 6 = 24$.
- 6 photos** Divide 54 photos into 9 equal groups. $54 \div 9 = 6$.

CHALLENGE

$10 \times 6 = 60$; $60 \div 5 = 12$ marbles each

Accept correct equations, repeated addition, skip-count lists, arrays described in words, or equal-jump reasoning. For the challenge, students should show both multiplication and division equations, in either order if their reasoning is clear.