

Equal Groups Quest

Use multiplication and division to solve everyday problems.

GRADE 3 • 3.CE.2.e

3.CE.2.e "Represent, solve, and justify solutions to single-step contextual problems that involve multiplication and division of whole numbers through 10×10 ."

NAME _____

DATE _____

BUILD AND SHARE GROUPS

Use multiplication when you know the number of equal groups and how many are in each group. Use division when you know the total and need to find the number in each group or the number of groups.

WORKED EXAMPLE

There are 7 bags with 6 marbles in each bag. How many marbles are there?

1. There are 7 equal groups of 6.
2. Write 7×6 .
3. Multiply: $7 \times 6 = 42$.

Answer: 42 marbles

PRACTICE 6 problems

1 $3 \times 4 = \underline{\quad}$

ANSWER _____

2 $8 \times 5 = \underline{\quad}$

ANSWER _____

3 $18 \div 3 = \underline{\quad}$

ANSWER _____

4 $40 \div 8 = \underline{\quad}$

ANSWER _____

5 $9 \times 2 = \underline{\quad}$

ANSWER _____

6 $27 \div 9 = \underline{\quad}$

ANSWER _____

APPLY IT Show your work

- 1** A trading card pack has 5 cards. Jordan buys 4 packs. How many cards does Jordan buy?

WORK SPACE

ANSWER _____

- 2** Thirty students form 10 equal teams for a game. How many students are on each team?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A pet shop has 4 tanks with 5 fish in each tank. Explain how 4×5 and $20 \div 4$ are connected.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$3 \times 4 = \underline{\quad}$	12
2	$8 \times 5 = \underline{\quad}$	40
3	$18 \div 3 = \underline{\quad}$	6
4	$40 \div 8 = \underline{\quad}$	5
5	$9 \times 2 = \underline{\quad}$	18
6	$27 \div 9 = \underline{\quad}$	3

PART 2 • APPLY IT

1. **20 cards** Multiply the number of packs by the cards in each pack: $4 \times 5 = 20$.
2. **3 students** Divide the total students by the number of teams: $30 \div 10 = 3$.

CHALLENGE

$4 \times 5 = 20$, so there are 20 fish. Then $20 \div 4 = 5$, because 20 fish shared equally among 4 tanks gives 5 fish in each tank.

Accept correct equations, number words, and labels. For the challenge, accept any clear explanation that multiplication finds the total and division finds the amount in each equal group.