LESSON MAKER PRO

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."

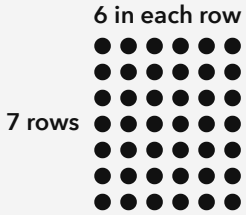
NAME _____ DATE _____

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 × 6 = 42.

Answer: 42 marbles

PRACTICE 6 problems

1 Three bags hold 4 marbles each. How many marbles? Write an equation.

ANSWER _____

2 Eight baskets hold 5 apples each. How many apples? Write an equation.

ANSWER _____

3 Share 18 crayons equally among 3 tables. How many per table? Write an equation.

ANSWER _____

4 Put 40 cards into packs of 8. How many packs? Write an equation.

ANSWER _____

5 Nine children each need 2 gloves. How many gloves? Write an equation.

ANSWER _____

6 Share 27 counters equally among 9 players. How many per player? Write an equation.

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? Draw equal groups and explain how your equation matches them.

CHALLENGE One step up

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

WORK SPACE AND ANSWER

ANSWER KEY

Equal Groups Quest

GRADE 3 · 3.CE.2.e

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Three bags hold 4 marbles each. How many marbles? Write an equation.	**3 × 4 = 12 marbles**
2	Eight baskets hold 5 apples each. How many apples? Write an equation.	**8 × 5 = 40 apples**
3	Share 18 crayons equally among 3 tables. How many per table? Write an equation.	**18 ÷ 3 = 6 crayons per table**
4	Put 40 cards into packs of 8. How many packs? Write an equation.	**40 ÷ 8 = 5 packs**
5	Nine children each need 2 gloves. How many gloves? Write an equation.	**9 × 2 = 18 gloves**
6	Share 27 counters equally among 9 players. How many per player? Write an equation.	**27 ÷ 9 = 3 counters per player**

PART 2 · APPLY IT

1. **20 cards** Multiply the number of packs by the cards in each pack: 4 × 5 = 20.
2. **30 ÷ 10 = 3 students per team; ten equal groups of three.** Divide the total students by the number of teams: 30 ÷ 10 = 3. Check ten groups containing three students each; 10 × 3 = 30.

CHALLENGE

4 × 5 = 20, so there are 20 fish. Then 20 ÷ 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.