LESSON MAKER PRO

Equal Groups Quest

Solve with multiplication and division.

GRADE 3 · 3.OA.A

CCSS.Math.Content.3.OA.A "Represent and solve problems involving multiplication and division."

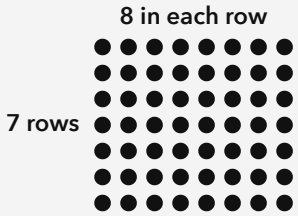
NAME _____ DATE _____

EQUAL GROUPS

Multiplication finds the total in equal groups. Division splits a total into equal groups or tells how many equal groups can be made. Use a multiplication fact to check a division answer.

WORKED EXAMPLE

Find the total in 7 groups of 8.



1. 7 groups of 8 means 7 x 8.
2. 7 x 8 = 56.
3. The total is 56.

Answer: 56

PRACTICE 6 problems

1 3 x 5 = ___

ANSWER _____

2 18 / 3 = ___

ANSWER _____

3 There are 4 bags with 3 marbles in each bag. How many marbles are there?

ANSWER _____

4 20 pencils are shared equally among 4 tables. How many pencils does each table get?

ANSWER _____

5 ___ x 6 = 30

ANSWER _____

6 27 / 9 = ___

ANSWER _____

APPLY IT Show your work

1 At recess, 5 teams have 4 beanbags each. How many beanbags are there altogether?

WORK SPACE

ANSWER

2 The library puts 27 books equally on 3 carts. How many books are on each cart? Draw the equal groups and write an equation that matches your model.

CHALLENGE One step up

A game club has 3 teams with 4 players on each team. Each player earns 5 points. How many points do all the players earn? Explain your reasoning with equations.

WORK SPACE AND ANSWER

ANSWER KEY

Equal Groups Quest

GRADE 3 · 3.OA.A

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	3 x 5 = ___	**15**
2	18 / 3 = ___	**6**
3	There are 4 bags with 3 marbles in each bag. How many marbles are there?	**12 marbles**
4	20 pencils are shared equally among 4 tables. How many pencils does each table get?	**5 pencils**
5	___ x 6 = 30	**5**
6	27 / 9 = ___	**3**

PART 2 · APPLY IT

1. **20 beanbags** Multiply the number of teams by the number of beanbags on each team. 5 x 4 = 20.
2. **3 equal groups of 9 books; 27 ÷ 3 = 9 books per cart.** Divide the total number of books by the number of carts. 27 / 3 = 9. The drawing should show all 27 books in three equal groups; use 3 × 9 = 27 to check.

CHALLENGE

60 points. 3 x 4 = 12 players, and 12 x 5 = 60 points.

Accept multiplication or division equations that match each situation. For the challenge, accept any clear explanation that finds 12 players and then 60 total points.