LESSON MAKER PRO

Equal Groups Quest

Use arrays, multiplication, and division to solve equal-group problems.

GRADE 3 · 3.OA.A.3

CCSS.Math.Content.3.OA.A.3 "Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g...."

NAME _____ DATE _____

FIND THE TOTAL OR MISSING PART

An array shows equal rows and columns. Multiply the number of rows by the number in each row to find a total. Divide when you know the total and need to find a missing group size or number of groups.

WORKED EXAMPLE

Look at the dot array. How many dots are there?



1. There are 3 equal rows.
2. Each row has 7 dots.
3. 3 × 7 = 21.

Answer: 21 dots

PRACTICE 6 problems

1 Look at the dot array. Write an equation to find the total number of dots.



ANSWER _____

2 Look at the dot array. There are 40 dots altogether. How many dots are in each row?



ANSWER _____

3 A craft table has 6 boxes of beads. Each box has 9 beads. How many beads are there altogether? Write an equation with a blank.

ANSWER _____

4 A teacher has 45 markers. She puts 5 markers in each cup. How many cups does she fill?

ANSWER _____

5 A library puts 72 books equally on 9 shelves. How many books are on each shelf?

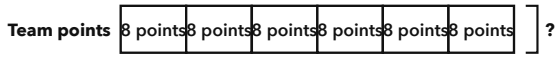
ANSWER _____

6 A bakery fills 8 trays with 10 muffins on each tray. How many muffins are on the trays?

ANSWER _____

APPLY IT Show your work

1 Look at the tape diagram. A game club has 6 teams. Each team earns 8 points. How many points do the teams earn altogether?



ANSWER _____

2 Lina has 64 trading cards. She puts the same number of cards on each of 8 album pages. How many cards are on each page?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A garden has 72 plants in equal rows. Each row has 9 plants. How many rows are there? Write one multiplication equation and one division equation to show your reasoning.

WORK SPACE AND ANSWER

ANSWER KEY

Equal Groups Quest

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Look at the dot array. Write an equation to find the total number of dots.	**4 × 6 = 24**
2	Look at the dot array. There are 40 dots altogether. How many dots are in each row?	**8**
3	A craft table has 6 boxes of beads. Each box has 9 beads. How many beads are there altogether? Write an equation with a blank.	**6 × 9 = 54**
4	A teacher has 45 markers. She puts 5 markers in each cup. How many cups does she fill?	**9**
5	A library puts 72 books equally on 9 shelves. How many books are on each shelf?	**8**
6	A bakery fills 8 trays with 10 muffins on each tray. How many muffins are on the trays?	**80**

PART 2 · APPLY IT

1. **48 points** Multiply 6 teams by 8 points per team. 6 × 8 = 48.
2. **8 cards** Divide the total cards by the number of pages. 64 / 8 = 8.

CHALLENGE

8 rows; 9 × 8 = 72 and 72 / 9 = 8

Accept equivalent multiplication equation order, such as 6 × 4 = 24. For the challenge, accept 8 × 9 = 72 and 72 / 9 = 8.