LESSON MAKER PRO

Equal Group Mysteries

Write equations and find missing numbers.

GRADE 4 · 4.A.2.2

4.A.2.2 "Solve for a variable in an equation involving addition, subtraction, multiplication, or division with whole numbers. Analyze models to represent number sentences and vice versa."

NAME _____ DATE _____

THE BIG IDEA

For equal groups, multiply the number of groups by the amount in each group to find the total. To find a missing group size, divide the total by the number of groups.

WORKED EXAMPLE

The array has 2 equal rows. Write an equation with ____ for dots in each row, then solve.



1. Count 18 dots.
2. 2 × ___ = 18
3. 18 ÷ 2 = 9

Answer: 9 dots per row

PRACTICE 4 problems

1 Complete: 8 × ___ = 56.

ANSWER _____

2 Complete: ___ × 5 = 40.

ANSWER _____

3 Complete: 72 ÷ ___ = 12.

ANSWER _____

4 Complete: ___ ÷ 10 = 6.

ANSWER _____

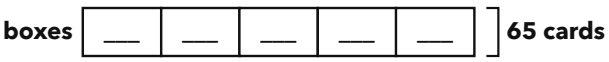
APPLY IT Show your work

1 A game has 7 levels. You earn the same number of stars on each level and collect 77 stars in all. Write an equation with ___ for stars per level. Solve.

WORK SPACE

ANSWER _____

2 A club packs trading cards equally into boxes. Use the model to write an equation with ___ for cards per box. Solve.



ANSWER _____

CHALLENGE One step up

Six shelves hold the same number of toys. After 8 toys are added to each shelf, the shelves hold 90 toys in all. Write an equation with ___ for the original toys on each shelf. Solve.

WORK SPACE AND ANSWER

ANSWER KEY

Equal Group Mysteries

GRADE 4 · 4.A.2.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Complete: 8 × ___ = 56.	**7**
2	Complete: ___ × 5 = 40.	**8**
3	Complete: 72 ÷ ___ = 12.	**6**
4	Complete: ___ ÷ 10 = 6.	**60**

PART 2 · APPLY IT

1. **7 × ___ = 77; 11 stars per level** Divide 77 by 7 to get 11.
2. **5 × ___ = 65; 13 cards per box** The model shows 5 equal boxes. Divide 65 by 5 to get 13.

CHALLENGE

6 × (___ + 8) = 90; 7 toys per shelf originally

Accept an equivalent division equation for either word problem. For the challenge, students may divide 90 by 6, then subtract 8.