LESSON MAKER PRO

Fact Family Quest

Use multiplication facts to solve division problems.

GRADE 3 · 3.OA.7

3.OA.7 "Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8 × 5 = 40, one knows 40 ÷ 5 = 8) or properties of operations..."

NAME _____ DATE _____

THE BIG IDEA

Multiplication and division are related. If you know how many are in each equal group, you can multiply to find the total. If you know the total, you can divide to find how many are in each group. When every group gets the same amount and nothing is left over, there is no remainder.

WORKED EXAMPLE

Use 8 x 7 = 56 to find 56 / 8 and 56 / 7.

1. 8 x 7 = 56.
2. 56 / 8 = 7 because 8 groups of 7 make 56.
3. 56 / 7 = 8 because 7 groups of 8 make 56.

Answer: 56 / 8 = 7; 56 / 7 = 8

PRACTICE 6 problems

1 9 x 3 = ___

ANSWER _____

2 Use your answer above: 27 / 3 = ___

ANSWER _____

3 5 x 5 = ___

ANSWER _____

4 36 / 4 = ___

ANSWER _____

5 ___ x 4 = 24

ANSWER _____

6 Use 5 x 9 = 45. Write two division facts using 45.

ANSWER _____

_____

APPLY IT Show your work

1 A sticker pack has 30 stickers on 5 equal sheets. How many stickers are on each sheet?

WORK SPACE

ANSWER _____

2 A video game gives 6 stars for each level Jay finishes. Jay finishes 9 levels. How many stars does Jay earn?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A club puts 60 beads equally into 5 bags. Then the beads in one bag are shared equally among 3 students. How many beads does each student get? Write two division equations to show your work.

WORK SPACE AND ANSWER

ANSWER KEY

Fact Family Quest

GRADE 3 · 3.OA.7

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	9 x 3 = ___	**27**
2	Use your answer above: 27 / 3 = ___	**9**
3	5 x 5 = ___	**25**
4	36 / 4 = ___	**9**
5	___ x 4 = 24	**6**
6	Use 5 x 9 = 45. Write two division facts using 45.	**45 / 5 = 9; 45 / 9 = 5**

PART 2 · APPLY IT

1. **6 stickers** Divide 30 by 5 to get 6 stickers on each sheet.
2. **54 stars** Multiply 6 by 9 to get 54 stars.

CHALLENGE

60 / 5 = 12; 12 / 3 = 4. Each student gets 4 beads.

For the last practice problem, accept the two division facts in either order. For the challenge, each equation should show an equal share with no beads left over.