LESSON MAKER PRO

Fact Family Fun

Use multiplication and division together.

GRADE 3 · 3.PAR.3.2

3.PAR.3.2 "Represent single digit multiplication and division facts using a variety of strategies. Explain the relationship between multiplication and division."

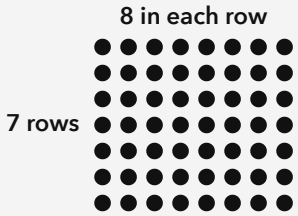
NAME _____ DATE _____

THE BIG IDEA

Multiplication combines equal groups. Division breaks a total into equal groups or tells how many groups there are. Use a related multiplication fact to solve a division fact.

WORKED EXAMPLE

Solve 7 x 8. Show an equal-groups strategy.



1. The array has 7 rows with 8 dots in each.
2. 7 × 8 = 56; sharing 56 dots among 7 rows gives 8 per row.
3. So 56 ÷ 7 = 8 checks the multiplication.

Answer: 7 x 8 = 56

PRACTICE 6 problems

1 Use repeated addition to solve: 4 x 6 = ___

ANSWER _____

2 Use a related multiplication fact to solve: 24 / 4 = ___

ANSWER _____

3 Write a multiplication equation for 3 groups of 5.

ANSWER _____

4 Complete the related division fact: 5 x 6 = 30, so 30 / 5 = ___.

ANSWER _____

5 Write two related facts, one multiplication fact and one division fact, using 2, 9, and 18.

ANSWER _____

_____

6 A total is split into 3 equal groups of 4. Write a division equation.

ANSWER _____

APPLY IT Show your work

1 Maya puts 6 stickers on each of 5 notebook covers. How many stickers does she use?

WORK SPACE

ANSWER

2 Twenty-four trading cards are shared equally among 4 friends. How many cards does each friend get? Draw equal groups and write both a division fact and a multiplication fact for your model.

CHALLENGE One step up

Lena knows that 6 x 9 = 54. Write two related division facts. Then explain how multiplication and division are related.

WORK SPACE AND ANSWER

ANSWER KEY

Fact Family Fun

GRADE 3 · 3.PAR.3.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Use repeated addition to solve: 4 x 6 = ___	**24**
2	Use a related multiplication fact to solve: 24 / 4 = ___	**6**
3	Write a multiplication equation for 3 groups of 5.	**3 x 5 = 15**
4	Complete the related division fact: 5 x 6 = 30, so 30 / 5 = ___.	**6**
5	Write two related facts, one multiplication fact and one division fact, using 2, 9, and 18.	**2 x 9 = 18; 18 / 2 = 9**
6	A total is split into 3 equal groups of 4. Write a division equation.	**12 / 3 = 4**

PART 2 · APPLY IT

1. **30 stickers** There are 5 equal groups of 6 stickers. Multiply 5 x 6 to get 30.
2. **4 equal groups of 6 cards; 24 ÷ 4 = 6 and 4 × 6 = 24.** Check four groups of six in the drawing; link the total 24 to both equations.

CHALLENGE

54 / 6 = 9 and 54 / 9 = 6. Multiplication and division are opposite operations, so the multiplication fact can help solve both division facts.

Accept multiplication facts written in either factor order, such as 9 x 2 = 18. Accept either matching division fact for problem 5 if it uses the same three numbers correctly.