LESSON MAKER PRO

Division Detectives

Share, group, and check

GRADE 3 · 3.N.2.6

3.N.2.6 "Represent division facts and divisibility by modeling a variety of approaches (e.g., repeated subtraction, equal sharing, forming equal groups) to show the relationship between multiplication and division."

NAME _____ DATE _____

THE BIG IDEA

Division can split a total into equal groups. Use multiplication to check: the number of groups times the number in each group equals the total.

WORKED EXAMPLE

Share 14 dots into 2 equal rows. How many dots are in each row?



1. Count 14 dots in 2 rows.
2. 14 / 2 = 7.
3. Check: 2 × 7 = 14.

Answer: 7 dots per row

PRACTICE 4 problems

1 Subtract 3 again and again from 18. How many subtractions reach 0?

ANSWER _____

2 Share 24 equally among 4 groups. How many are in each group?

ANSWER _____

3 Make groups of 8 from 32. How many groups can you make?

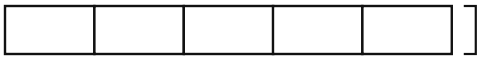
ANSWER _____

4 Fill in both blanks: 9 × ___ = 27, so 27 / 9 = ___.

ANSWER _____

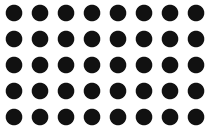
APPLY IT Show your work

1 A club shares 30 badges among 5 prize bags. How many badges go in each bag? Use the strip.



ANSWER _____

2 A class has 40 beads. Each bracelet needs 8 beads. How many bracelets can they make? Use the array.



ANSWER _____

CHALLENGE One step up

Can 48 cards be put in groups of 8 with none left over? Write a division fact and a multiplication fact to prove it.

WORK SPACE AND ANSWER

ANSWER KEY

Division Detectives

GRADE 3 · 3.N.2.6

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Subtract 3 again and again from 18. How many subtractions reach 0?	**6 subtractions**
2	Share 24 equally among 4 groups. How many are in each group?	**6**
3	Make groups of 8 from 32. How many groups can you make?	**4 groups**
4	Fill in both blanks: 9 × ___ = 27, so 27 / 9 = ___.	**3 in each blank**

PART 2 · APPLY IT

1. **6 badges per bag** The strip shows 5 equal parts. 30 / 5 = 6 badges in each bag.
2. **5 bracelets** Each row shows 8 beads for one bracelet. The 40 beads make 5 rows, so 40 / 8 = 5.

CHALLENGE

Yes. 48 / 8 = 6 and 6 × 8 = 48.

For the challenge, accept 8 × 6 = 48 as the multiplication check. In the practice section, accept a count of six repeated subtractions for the first problem.