

Divide and Display

Use arrays and equations to show equal groups.

GRADE 4 • TEKS 4.4.E

4.4.E "represent the quotient of up to a four-digit whole number divided by a one-digit whole number using arrays, area models, or equations;"

NAME _____

DATE _____

SHOW THE QUOTIENT

A division equation shows how a total is split into equal groups. In an array, each equal row can be one group, and the number in each row is the quotient. Check by multiplying the quotient by the divisor.

WORKED EXAMPLE

What division equation does this array show?

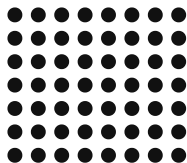


1. Count 4 equal rows.
2. Count 12 dots in each row.
3. Write $48 / 4 = 12$.
4. Check: $4 \times 12 = 48$.

Answer: $48 / 4 = 12$

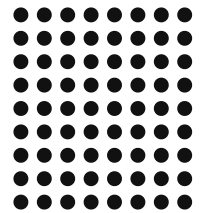
PRACTICE 4 problems

- 1** What division equation does this array show?



ANSWER _____

- 2** What division equation does this array show?



ANSWER _____

- 3** Use an equation to find $936 / 3$.

ANSWER _____

- 4** Find $1,248 / 6$.

ANSWER _____

APPLY IT Show your work

1 A club puts 672 trading cards equally into 8 binders. How many cards go in each binder?

WORK SPACE

ANSWER _____

2 Maya has 1,092 beads for 7 equal friendship bracelets. How many beads are on each bracelet?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Use equations to split 3,276 into two parts that are each divisible by 9. Then find $3,276 \div 9$.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	What division equation does this array show?	$56 / 7 = 8$
2	What division equation does this array show?	$72 / 9 = 8$
3	Use an equation to find $936 / 3$.	$936 / 3 = 312$
4	Find $1,248 / 6$.	208

PART 2 • APPLY IT

1. **84 cards** Write $672 / 8 = 84$. Each binder gets 84 cards.
2. **156 beads** Write $1,092 / 7 = 156$. Each bracelet has 156 beads.

CHALLENGE

$2,700 / 9 + 576 / 9 = 300 + 64 = 364$; $3,276 / 9 = 364$

Accept correct division equations with the quotient. For the challenge, accept any two divisible parts that add to 3,276 and give a quotient of 364.