

Share and Check

Find quotients and remainders with equal groups.

GRADE 4 • NY-4.NBT.6

NY-4.NBT.6 "Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division..."

NAME _____

DATE _____

DIVIDE WITH EQUAL GROUPS

Division asks how many are in each equal group. Check with multiplication: $\text{divisor} \times \text{quotient} + \text{remainder} = \text{dividend}$. A remainder is always less than the divisor.

WORKED EXAMPLE

How many dots are in each equal row?



1. Count 48 dots.
2. There are 4 equal rows.
3. $48 \div 4 = 12$.
4. Check: $4 \times 12 = 48$.

Answer: 12 dots in each row

PRACTICE 4 problems

1 $672 \div 3 = \underline{\hspace{2cm}}$

ANSWER _____

2 $945 \div 5 = \underline{\hspace{2cm}}$

ANSWER _____

3 $1,286 \div 6 = \underline{\hspace{2cm}} \text{ R } \underline{\hspace{2cm}}$

ANSWER _____

4 $3,527 \div 8 = \underline{\hspace{2cm}} \text{ R } \underline{\hspace{2cm}}$

ANSWER _____

APPLY IT Show your work

- 1** The rows show the prize bags. A game club shares 1,491 tokens equally. How many tokens go in each bag?

ANSWER _____

- 2** The rows show the supply bins. A robotics club sorts 986 screws equally into the bins. How many screws go in each bin, and how many are left?

ANSWER _____

CHALLENGE One step up

Find $2,764 \div 7$. Write an equation that checks your quotient and remainder.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$672 \div 3 = \underline{\hspace{1cm}}$	224
2	$945 \div 5 = \underline{\hspace{1cm}}$	189
3	$1,286 \div 6 = \underline{\hspace{1cm}} \text{ R } \underline{\hspace{1cm}}$	214 R 2
4	$3,527 \div 8 = \underline{\hspace{1cm}} \text{ R } \underline{\hspace{1cm}}$	440 R 7

PART 2 • APPLY IT

- 213 tokens in each bag** Count 7 rows. Calculate $1,491 \div 7 = 213$.
- 164 screws in each bin, 2 left** Count 6 rows. Calculate $986 \div 6 = 164 \text{ R } 2$.

CHALLENGE

$394 \text{ R } 6; 2,764 = 7 \times 394 + 6$

Accept R or the word remainder. For the challenge, accept an equivalent correct check equation with the quotient 394 and remainder 6.