LESSON MAKER PRO

Remainder Rangers

Divide big numbers and turn leftovers into fractions.

GRADE 5 · MA.5.NSO.2.2

MA.5.NSO.2.2 "Divide multi-digit whole numbers, up to five digits by two digits, including using a standard algorithm with procedural fluency. Represent remainders as fractions."

NAME _____ DATE _____

TURN REMAINDERS INTO FRACTIONS

Divide using the standard algorithm. If there is a remainder, write it over the divisor, then simplify the fraction if possible. Your quotient may be a mixed number.

WORKED EXAMPLE

7,458 / 23

1. 74 / 23 = 3 remainder 5.
2. Bring down 5. 55 / 23 = 2 remainder 9.
3. Bring down 8. 98 / 23 = 4 remainder 6.
4. Write the remainder as 6/23.

Answer: 324 6/23

PRACTICE 6 problems

1 864 / 12

ANSWER _____

2 1,527 / 18

ANSWER _____

3 3,276 / 24

ANSWER _____

4 9,413 / 31

ANSWER _____

5 12,684 / 16

ANSWER _____

6 45,678 / 42

ANSWER _____

APPLY IT Show your work

1 The art club has 6,389 centimeters of bracelet cord. The club shares the cord equally among 27 students. How many centimeters of cord does each student get?

WORK SPACE

ANSWER _____

2 The media club has 24,815 seconds of video footage. It divides the footage equally among 36 student editors. How many seconds of footage does each editor get?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A community garden has 49,999 ounces of soil to share equally among 64 raised beds. How many ounces of soil does each bed get? Write any remainder as a fraction in simplest form.

WORK SPACE AND ANSWER

ANSWER KEY

Remainder Rangers

GRADE 5 · MA.5.NSO.2.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	864 / 12	**72**
2	1,527 / 18	**84 5/6**
3	3,276 / 24	**136 1/2**
4	9,413 / 31	**303 20/31**
5	12,684 / 16	**792 3/4**
6	45,678 / 42	**1,087 4/7**

PART 2 · APPLY IT

1. **236 17/27 centimeters** Divide 6,389 by 27. Each student gets 236 centimeters, with 17 centimeters left, so the leftover share is 17/27 centimeter.
2. **689 11/36 seconds** Divide 24,815 by 36. Each editor gets 689 seconds, with 11 seconds left, so the leftover share is 11/36 second.

CHALLENGE

781 15/64 ounces

Accept equivalent fractional forms for remainders, including an unsimplified remainder over the divisor when the division quotient is correct. Students should write answers with remainders as fractions, not with the letter r.