

Divide and Conquer

Use the standard algorithm to divide.

GRADE 4 • TEKS 4.4.F

4.4.F "use strategies and algorithms, including the standard algorithm, to divide up to a four- digit dividend by a one-digit divisor;"

NAME _____

DATE _____

DIVIDE FROM LEFT

Start with the leftmost digit or digits that make a number at least as large as the divisor. Divide, multiply, subtract, and bring down the next digit. If an amount is left over at the end, write it as a remainder.

WORKED EXAMPLE

$$4,368 \div 6$$

1. 6 goes into 43 seven times. Write 7.
2. $7 \times 6 = 42$. Subtract to get 1.
3. Bring down 6. 6 goes into 16 two times, with 4 left.
4. Bring down 8. 6 goes into 48 eight times.

Answer: 728

PRACTICE 6 problems

1 $864 \div 3$

ANSWER _____

2 $1,248 \div 4$

ANSWER _____

3 $2,835 \div 5$

ANSWER _____

4 $3,276 \div 6$

ANSWER _____

5 $4,824 \div 8$

ANSWER _____

6 $1,957 \div 7$

ANSWER _____

APPLY IT Show your work

- 1** The art club has 1,536 sticker sheets. They put the sheets equally into 6 supply boxes. How many sticker sheets go in each box?

WORK SPACE

ANSWER _____

- 2** A game club has 2,947 game tokens to share equally among 8 teams. How many tokens does each team get, and how many are left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Use the standard algorithm to solve $4,003 \div 7$.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	864 / 3	288
2	1,248 / 4	312
3	2,835 / 5	567
4	3,276 / 6	546
5	4,824 / 8	603
6	1,957 / 7	279 R4

PART 2 • APPLY IT

1. **256 sticker sheets** Divide 1,536 by 6. Each supply box gets 256 sticker sheets.
2. **368 tokens each, 3 left** Divide 2,947 by 8. Each team gets 368 tokens, with 3 tokens left over.

CHALLENGE

571 R6

Accept remainder forms such as 279 R4 or 279 remainder 4. For the word problem with tokens, accept an answer that clearly states both 368 for each team and 3 left over.