LESSON MAKER PRO

Division Quest

Use the standard algorithm to divide with confidence.

GRADE 5 · TEKS 5.3.C

5.3.C "solve with proficiency for quotients of up to a four-digit dividend by a two-digit divisor using strategies and the standard algorithm;"

NAME _____ DATE _____

DIVIDE STEP BY STEP

When you divide a large number by a two-digit number, work from left to right. At each place, divide, multiply, subtract, and bring down the next digit. Write a remainder only after you have brought down all the digits.

WORKED EXAMPLE

936 / 24

1. 24 goes into 93 three times, with 21 left over; write 3 in the quotient.
2. Multiply and subtract: 93 - (3 x 24) = 21.
3. Bring down 6 to make 216.
4. Divide: 216 / 24 = 9, so write 9. The remainder is 0.

Answer: 39

PRACTICE 6 problems

1 864 / 18

ANSWER _____

2 1,092 / 21

ANSWER _____

3 1,456 / 28

ANSWER _____

4 2,184 / 24

ANSWER _____

5 3,276 / 36

ANSWER _____

6 3,745 / 32

ANSWER _____

APPLY IT Show your work

1 The art club has 1,872 beads. They put the beads into 24 equal jewelry kits. How many beads are in each kit?

WORK SPACE

ANSWER _____

2 A field day has 3,150 water bottles. The bottles are shared equally among 35 homerooms. How many water bottles does each homeroom get?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Solve 5,040 / 48 using the standard algorithm. Be careful when the quotient has a zero.

WORK SPACE AND ANSWER

ANSWER KEY

Division Quest

GRADE 5 · TEKS 5.3.C

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	864 / 18	**48**
2	1,092 / 21	**52**
3	1,456 / 28	**52**
4	2,184 / 24	**91**
5	3,276 / 36	**91**
6	3,745 / 32	**117 R1**

PART 2 · APPLY IT

1. **78 beads** Divide 1,872 by 24. Each jewelry kit has 78 beads.
2. **90 water bottles** Divide 3,150 by 35. Each homeroom gets 90 water bottles.

CHALLENGE

105

Accept 117 R1 or 117 remainder 1 for problem 6. All other division problems have no remainder.