LESSON MAKER PRO

Divide and Conquer

Use the standard algorithm to find each quotient.

GRADE 6 · 6.NS.B.2

CCSS.Math.Content.6.NS.B.2 "Fluently divide multi-digit numbers using the standard algorithm."

NAME _____ DATE _____

LONG DIVISION STEPS

Start at the left, divide, multiply, subtract, and bring down the next digit. If the divisor cannot go into the current amount, write 0 in the quotient before bringing down the next digit.

WORKED EXAMPLE

4,872 / 8

1. 8 goes into 48 six times. Write 6 in the hundreds place, then subtract 48 - 48 = 0.
2. Bring down 7. Write 0 in the tens place because 8 cannot go into 7, then bring down 2 to make 72.
3. 8 goes into 72 nine times. Write 9, then subtract 72 - 72 = 0.

Answer: 609

PRACTICE 6 problems

1 7,560 / 9 = ___

ANSWER _____

2 6,384 / 12 = ___

ANSWER _____

3 9,240 / 24 = ___

ANSWER _____

4 15,876 / 36 = ___

ANSWER _____

5 22,725 / 45 = ___

ANSWER _____

6 48,384 / 64 = ___

ANSWER _____

APPLY IT Show your work

1 An art club has 3,276 beads to share equally among 14 students making bracelets. How many beads does each student get?

WORK SPACE

ANSWER _____

2 Student council puts 18,900 glow bracelets into 35 equal boxes for a school event. How many glow bracelets are in each box?

WORK SPACE

ANSWER _____

CHALLENGE One step up

96,096 / 84 = ___

WORK SPACE AND ANSWER

ANSWER KEY

Divide and Conquer

GRADE 6 · 6.NS.B.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	7,560 / 9 = ___	**840**
2	6,384 / 12 = ___	**532**
3	9,240 / 24 = ___	**385**
4	15,876 / 36 = ___	**441**
5	22,725 / 45 = ___	**505**
6	48,384 / 64 = ___	**756**

PART 2 · APPLY IT

1. **234 beads** Divide 3,276 by 14. Since 14 x 234 = 3,276, each student gets 234 beads.
2. **540 glow bracelets** Divide 18,900 by 35. Since 35 x 540 = 18,900, each box has 540 glow bracelets.

CHALLENGE

1,144

Accept quotients written with or without commas. Students should use the standard division algorithm and include a zero in the quotient when needed.