ALBERT

Name _____ Date _____

Long Division with 2-Digit Divisors Worksheet

Grade 5 · Common Core 5.NBT.B.6

> Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

Practice

Builds the skill step by step.

1. 96 ÷ 12 = ?

2. 375 ÷ 15 = ?

3. 672 ÷ 21 = ?

4. Which multiplication checks that 828 ÷ 36 = 23?

   A. 36 + 23 = 59

   B. 828 × 36 = 29,808

   C. 23 × 828 = 19,044

   D. 36 × 23 = 828

5. 1,248 ÷ 24 = ?

6. 504 students are put into teams of 14. How many teams are there?

7. 250 ÷ 12 = ? Write the quotient and the remainder.

8. This area model shows 408 ÷ 12. The rectangle is 12 units tall, and its area of 408 is split into parts of 360 and 48. The top row shows the missing lengths. What is 408 ÷ 12?

	?	?
12	360	48

9. 4,500 ÷ 50 = ?

10. 1,000 ÷ 25 = ?

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On Level

Grade-level practice.

1. 3,936 ÷ 48 = ?

2. 7,452 ÷ 81 = ?

3. 2,000 ÷ 32 = ? Write the quotient and the remainder.

4. A farm packs 1,560 eggs into cartons of 12. How many cartons does it fill?

5. Which work shows 1,794 ÷ 23 correctly?

   A. 23 × 70 = 1,610; 1,794 − 1,610 = 184; 23 × 8 = 184; the quotient is 8.

   B. 23 × 70 = 1,610; 1,794 − 1,610 = 184; 23 × 8 = 184; the quotient is 78.

   C. 23 × 80 = 1,840; 1,794 − 1,840 = 46; the quotient is 82.

   D. 23 × 7 = 161; 1,794 − 161 = 1,633; the quotient is 7.

6. 6,840 ÷ 45 = ?

7. 1,000 people are going to a game. Each bus holds 44 people. How many buses are needed?

8. 9,999 ÷ 99 = ?

9. A 2,880-meter path is split into 64 equal sections. How long is each section?

10. Which is the best estimate of 3,512 ÷ 49?

    A. 7

    B. 60

    C. 70

    D. 700

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Challenge

Multi-step and word problems that stretch it.

1. 8,736 ÷ 96 = ?

2. What number divided by 34 gives a quotient of 56 and a remainder of 12?

3. A store packs 5,000 pencils into boxes of 36, filling as many boxes as it can. How many pencils are left over?

4. Find the missing digit: 3,_20 ÷ 24 = 155

5. Ms. Diaz has 1,350 stickers. She keeps 54 and shares the rest equally among 27 students. How many stickers does each student get?

6. Which division has no remainder?

   A. 2,590 ÷ 72

   B. 2,592 ÷ 72

   C. 3,000 ÷ 72

   D. 1,500 ÷ 72

7. A 9,000-liter tank is drained at 75 liters each minute. How many minutes does it take to empty the tank?

8. This area model shows 8,505 ÷ 35. The rectangle is 35 units tall, and its area is split into parts of 7,000, 1,400 and 105. What is 8,505 ÷ 35?

	?	?	?
35	7,000	1,400	105

9. What is the greatest remainder you can get when you divide a whole number by 45?

10. A bakery made 3,600 cookies on Monday and 2,880 cookies on Tuesday. It packs them in bags of 24. How many more bags did it fill on Monday than on Tuesday?