

Long Division with Multi-Digit Divisors

Grade 6 math · Test · Standards: 6.NS.B.2

Name: _____ Date: _____ Class: _____

This test has 9 questions worth 20 points in total and fits a 45-minute period. Show every step of each long division, write remainders with an R, and check answers by multiplying.

Standards: 6.NS.B.2 · **Level:** Grade 6

Time: 45 minutes · 9 questions · Total: 20 points · Calculator: as allowed by your teacher

Question 1 Estimating (2 points)

Estimate each quotient using compatible numbers.

- a. $4,812 \div 61$ (1 point)
- b. $7,950 \div 39$ (1 point)

Question 2 Two-Digit Divisor (2 points)

Divide: $1,248 \div 26$.

Question 3 Remainders (2 points)

Divide $5,000 \div 37$. Write the quotient and the remainder.

Question 4 Zero in the Quotient (2 points)

Divide: $19,488 \div 48$.

Question 5 Find the Error (2 points)

A student divided 2,184 by 52 as shown.

$$\begin{array}{r}
 52 \overline{) 2184} \quad R 52 \\
 \underline{208} \\
 104 \\
 \underline{52} \\
 52
 \end{array}$$

A student's work.

Explain the error and give the correct quotient.

Question 6 Ferry Trips (3 points)

A ferry carries 14 cars per trip, and 205 cars are waiting.

- Divide $205 \div 14$ and write the quotient and remainder. (1 point)
- How many trips are needed? (1 point)
- How many cars are on the last trip? (1 point)

Question 7 Fence Sections (3 points)

A fence 2,016 feet long is built in 36 equal sections.

2,016 feet of fence in 36 equal sections



length of each section = ?

Each section has the same length.

Find the length of one section.

Question 8 Muffin Cartons (3 points)

A bakery makes 3,420 muffins and packs 12 in each box. Boxes are packed into cartons of 24 boxes. How many cartons are needed?

Question 9 Checking (1 point)

Use multiplication to check whether $1,203 \div 25 = 48 R 3$ is correct.