

Grade 6 · Multi-Digit Division · Test

Common Core 6.NS.B.2 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

This 45-minute test covers multi-digit division from Common Core 6.NS.B.2. It has 9 questions worth 20 points in total. Show all work, write remainders where needed, and explain how you interpreted each remainder in word problems.

Test information

- **Grade:** Grade 6
- **Chapter:** Multi-Digit Division
- **Common Core:** 6.NS.B.2
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 2 pts; Question 4: 2 pts; Question 5: 2 pts; Question 6: 2 pts; Question 7: 3 pts; Question 8: 3 pts; Question 9: 2 pts)

Question 1: Divide with one-digit and two-digit divisors (2 points)

Find each quotient.

- a. $3,528 \div 7$ (1 point)
- b. $1,998 \div 18$ (1 point)

Question 2: Quotients with larger divisors (2 points)

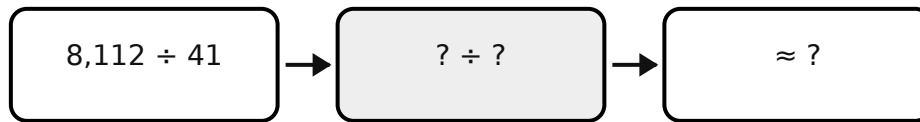
Find each quotient. Write any remainder.

- a. $9,576 \div 38$ (1 point)
- b. $6,407 \div 52$ (1 point)

Question 3: Estimate and divide (2 points)

Consider $8,112 \div 41$.

- a. Write an estimate of the quotient using compatible numbers. (1 point)
- b. Find the exact quotient and remainder. (1 point)



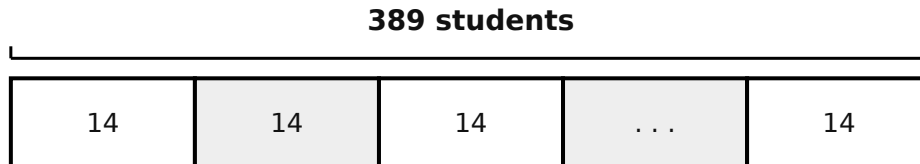
Space for an estimate.

Question 4: Find the error (2 points)

Liam says that $4,806 \div 27 = 168$. Determine whether Liam is correct. If he is not, find the correct quotient.

Question 5: Vans for a trip (2 points)

A middle school sends 389 students to a science museum. Each van seats 14 students. Find the least number of vans needed to seat every student.



Each van seats 14 students.

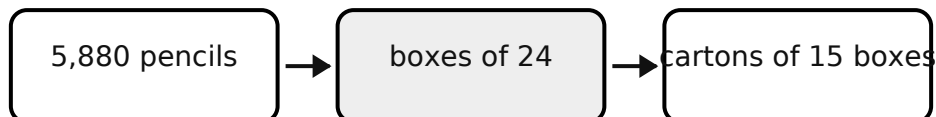
Question 6: Concert tickets (2 points)

Ethan has \$250 to spend on tickets that cost \$16 each. Find the greatest number of tickets he can buy and the amount of money he has left.

Question 7: Pencil packing (3 points)

A factory packs 5,880 pencils into boxes of 24. Then the boxes are packed into cartons of 15 boxes each.

- Find the number of boxes. (1 point)
- Find the number of full cartons and the number of boxes left over. (2 points)



Pencils are packed into boxes, then boxes into cartons.

Question 8: Work backward from a quotient (3 points)

When a whole number is divided by 23, the quotient is 64 and the remainder is 9.

- a. Find the number. *(2 points)*
- b. Find the quotient and remainder when the same number is divided by 31. *(1 point)*

Question 9: Weekly earnings (2 points)

Jamal earned \\$1,404 mowing lawns over 36 weeks, earning the same amount each week.

- a. Find the amount he earned each week. *(1 point)*
- b. At the same rate, find the number of weeks he needs to earn \$2,145. *(1 point)*