

Grade 4 · Division with Remainders · Test

Common Core 4.NBT.B.6, 4.OA.A.3 · mathovore.fr

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

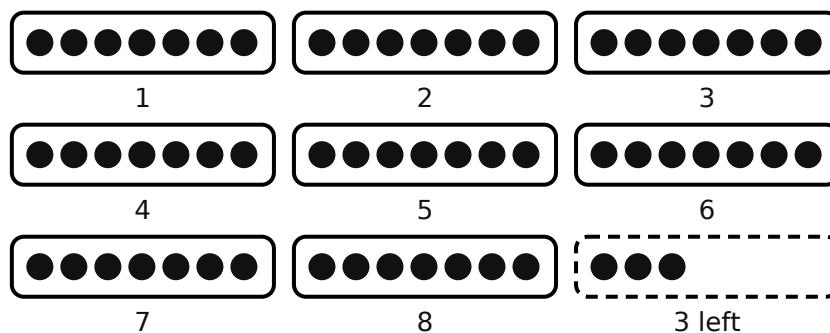
This test has 9 questions worth 20 points. It covers division with up to four-digit dividends and one-digit divisors, area models, and remainders in word problems. Work for 45 minutes, show each step, and write remainders with the letter R.

Test information

- **Grade:** Grade 4
- **Chapter:** Division with Remainders
- **Common Core:** 4.NBT.B.6, 4.OA.A.3
- **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: Quotient and remainder (2 points)

The figure shows 59 dots.



59 dots.

- Find $59 \div 7$. (1 point)
- Find $83 \div 9$. (1 point)

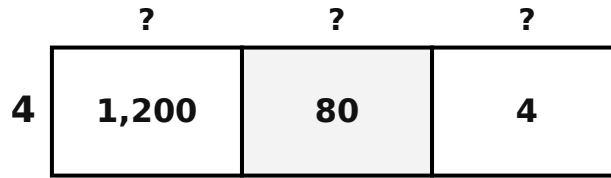
Question 2: Dividing by one digit (2 points)

- Find $672 \div 3$. (1 point)

b. Find $845 \div 6$. (1 point)

Question 3: Area model (2 points)

The area model shows $1,284 \div 4$, split into parts with areas 1,200, 80, and 4.



Areas 1,200, 80, and 4.

- a. Find the missing number above each part. (1 point)
- b. Write the quotient. (1 point)

Question 4: Large dividends (2 points)

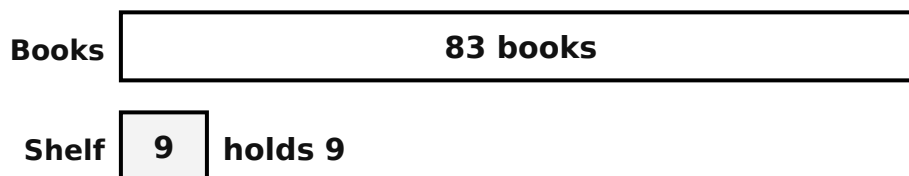
- a. Find $3,642 \div 5$. (1 point)
- b. Find $7,008 \div 8$. (1 point)

Question 5: Remainder rules (2 points)

- a. A number divided by 6 has quotient 52 and remainder 5. Find the number. (1 point)
- b. Explain why 7 cannot be the remainder when a number is divided by 6. (1 point)

Question 6: Shelves for books (2 points)

Aisha has 83 books. Each shelf holds 9 books. How many shelves does she need to hold all of the books?



One shelf holds 9 books.

- a. Find $83 \div 9$. (1 point)
- b. State the number of shelves needed. (1 point)

Question 7: Baseball card pages (3 points)

Jamal has 1,003 baseball cards. He puts 4 cards on each page of an album.

- a. How many pages are completely full? *(1 point)*
- b. How many cards are on the page that is not full? *(1 point)*
- c. How many pages does he need to hold all of the cards? *(1 point)*

Question 8: Pencil boxes (3 points)

The school store has 1,250 pencils. It puts 6 pencils in each box and sells every full box for \$2.

- a. How many full boxes can the store make? *(1 point)*
- b. How many pencils are left over? *(1 point)*
- c. How much money does the store make from the full boxes? *(1 point)*

Question 9: Number puzzles (2 points)

- a. A number divided by 7 has quotient 128 and remainder 5. Find the number. *(1 point)*
- b. When 390 is divided by 9, the quotient is 43. Find the remainder. *(1 point)*