

Grade 5 · Dividing Whole Numbers · Worksheet

Common Core 5.NBT.B.6 · mathovore.fr

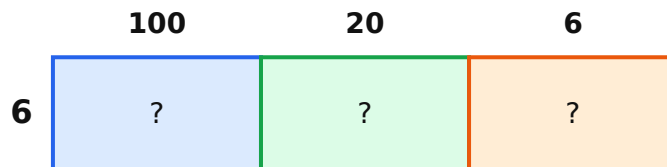
Name: _____ Date: ____/____/____ Score: _____

This worksheet has 23 problems on dividing whole numbers with up to four-digit dividends and two-digit divisors, aligned to Common Core 5.NBT.B.6. Practice area models, partial quotients, estimation, and checking with multiplication. The last six problems are word problems that use cookies, buses, apples, miles, and beads.

Grade 5 Common Core: 5.NBT.B.6

Problem 1: Area model warm-up

Use the area model to find $756 \div 6$. Write each missing product, then the partial quotients.



The top labels are the partial quotients; each cell is 6 times its label.

Problem 2: Two-digit divisor

Find $960 \div 15$.

Problem 3: One-digit divisor

Find $1,248 \div 4$.

Problem 4: Place-value pattern

Find $4,200 \div 60$.

Problem 5: Exact division

Find $744 \div 24$.

Problem 6: A remainder

Find $905 \div 7$.

Problem 7: Four digits, two-digit divisor

Find $2,415 \div 35$.

Problem 8: Partial quotients

Use partial quotients to find $1,596 \div 21$.

Problem 9: Divide 3,078 by 18

Find $3,078 \div 18$.

Problem 10: A zero in the quotient

Find $4,284 \div 42$.

Problem 11: Divide 5,238 by 54

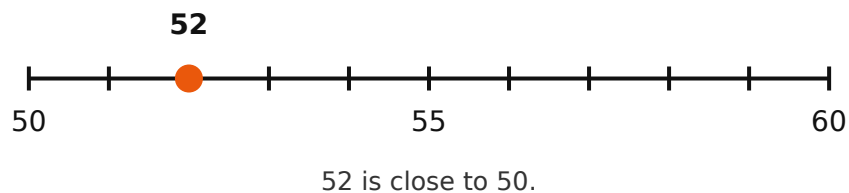
Find $5,238 \div 54$.

Problem 12: Divide with zeros

Find $6,500 \div 25$.

Problem 13: Estimate with compatible numbers

Use compatible numbers to estimate $4,187 \div 52$. Then find the exact quotient and remainder.



Problem 14: A remainder with two digits

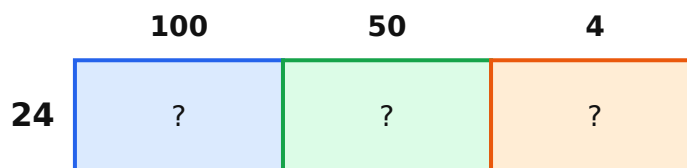
Find $2,009 \div 31$.

Problem 15: Check with multiplication

Diego says $7,863 \div 43 = 183$. Use multiplication to check. If he is wrong, find the correct quotient and remainder.

Problem 16: Fill the division area model

The area model is set up for $3,696 \div 24$. Find the missing products and the quotient.



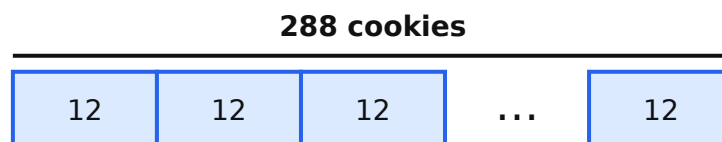
Height 24; the labels on top are partial quotients.

Problem 17: Find the mistake

Ana wrote $3,150 \div 15 = 21$. Explain her mistake and find the correct quotient.

Problem 18: Cookie boxes

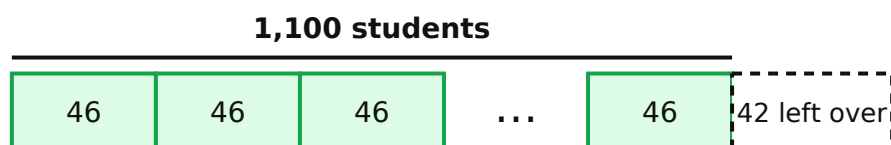
Aisha has 288 cookies to pack for the bake sale. She puts 12 cookies in each box. How many boxes can she fill?



288 cookies split into groups of 12.

Problem 19: Buses for a field trip

A school takes 1,100 students on a field trip. Each bus holds 46 students. How many buses are needed so that every student has a seat?



23 full buses and 42 students left.

Problem 20: Bags of apples

Priya sorts 2,550 apples into bags of 15 apples. She sells each bag for \$4. How much money does she earn if she sells every bag?

Problem 21: Road trip speed

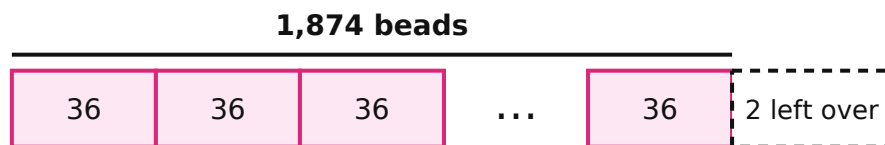
Liam's family drives 1,365 miles in 21 hours. They drive the same number of miles each hour. How many miles per hour is that?

Problem 22: Baseballs for teams

A league orders 1,440 baseballs. They come in cases of 24. The cases are shared equally among 15 teams. How many cases does each team get?

Problem 23: Bead bracelets

Mei has 1,874 beads. Each bracelet uses 36 beads. How many bracelets can she make, and how many beads are left over?



52 full bracelets and 2 beads left.