Grade 4 Math

Division with Remainders

Share by place, divide familiar pieces, then check.

Equal groups and place-value bundles

Partial quotients and area models

Jumps, checks and the meaning of leftovers

Two story pages and a self-checking code

12 practice pages and 12 matching answer keys

Georgia's K-12 Mathematics Standards

4.NR.2.4

26 pages | Print at 100% | Answer keys included

TOUCHSTONE STANDARDS

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Georgia's K-12 Mathematics Standards

4.NR.2
Using part-whole strategies, solve problems involving addition and subtraction through the hundred-thousands place, as well as multiplication and division of multi-digit whole numbers presented in real-life, mathematical situations.

4.NR.2.4
Solve authentic division problems involving up to 4-digit dividends and 1-digit divisors (including whole number quotients with remainders) using strategies based on place-value understanding, properties of operations, and the relationships between operations.

Expectation
Long division is not an expectation at this grade level.

Representations
Students should be able to illustrate and explain their calculations using equations, rectangular arrays, and/or area models.

Appendix
Specific mathematics strategies for teaching and learning are not mandated by the Georgia Department of Education or assessed on state or federally mandated tests.

Practice / key page map: all 4.NR.2.4

3 / 15 Share It Out
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Teaching notes

Choose any correct strategy. Every key shows one possible way.

Six primary tasks have no leftover; nineteen have leftovers.

Dividends have 2 to 4 digits; divisors are 2 to 9. Four-digit tasks begin on p8.

Each result has a quotient and an amount left over. For 547 ÷ 6, 91 R 1 is also correct.

Area models and open number-line jumps are not drawn to scale. Their labels show the amounts.

p11 and p12 state whether to use full groups, an extra container or the leftovers.

Answers without commas are also correct. No task is timed.

Follow Touchstone Standards on TPT for new Grade 4 resources. After use, an honest review helps us improve.

Print at 100%. This bar must measure 2 inches.



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Area Models for Division

Name _____ Print at 100%

Find the missing side in pieces. Add the parts and check.

Strategy Spotlight

794 ÷ 6

132 with 2 left over

600 ÷ 6 = 100
180 ÷ 6 = 30
12 ÷ 6 = 2
100 + 30 + 2 = 132
6 × 132 + 2 = 794

1 462 ÷ 7

	[ ]	[ ]
7	420	42

[ ]

Result: [ ] with [ ] left over

2 675 ÷ 5

	[ ]	[ ]	[ ]
5	500	150	25

[ ]

Result: [ ] with [ ] left over

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Answer Key: Area Models for Division

Name _____ Print at 100%

Find the missing side in pieces. Add the parts and check.

Strategy Spotlight

794 ÷ 6

132 with 2 left over

600 ÷ 6 = 100
180 ÷ 6 = 30
12 ÷ 6 = 2
100 + 30 + 2 = 132
6 × 132 + 2 = 794

1 462 ÷ 7

	60	6
7	420	42

60 + 6 = 66
7 × 66 + 0 = 462

Result: **66** with **0** left over

2 675 ÷ 5

	100	30	5
5	500	150	25

100 + 30 + 5 = 135
5 × 135 + 0 = 675

Result: **135** with **0** left over

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Division Stories 1

Name _____ Print at 100%

Read the leftover policy. Divide, then answer the question.

Strategy Spotlight

753 ÷ 5

150 with 3 left over

500 ÷ 5 = 100
250 ÷ 5 = 50
100 + 50 = 150
5 × 150 + 3 = 753

1 An art studio has 1,549 clay tiles. Each display uses 8 tiles; extra tiles stay in storage. How many complete displays can it make?

Result: ☐ with ☐ left over Show your thinking.

Answer: ☐ complete displays

2 A pin maker must ship all 2,857 pins in cartons holding at most 6 pins each. How many cartons are needed, including a partly filled carton?

Result: ☐ with ☐ left over Show your thinking.

Answer: ☐ shipping cartons

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Answer Key: Division Stories 1

Name _____ Print at 100%

Read the leftover policy. Divide, then answer the question.

Strategy Spotlight

753 ÷ 5

150 with 3 left over

500 ÷ 5 = 100
250 ÷ 5 = 50
100 + 50 = 150
5 × 150 + 3 = 753

1. An art studio has 1,549 clay tiles. Each display uses 8 tiles; extra tiles stay in storage. How many complete displays can it make?

Result: **193** with **5** left over Show your thinking.

800 ÷ 8 = 100
720 ÷ 8 = 90
24 ÷ 8 = 3
100 + 90 + 3 = 193
8 × 193 + 5 = 1,549
Use 193 full groups; store 5 extra.

Answer: **193** complete displays

2. A pin maker must ship all 2,857 pins in cartons holding at most 6 pins each. How many cartons are needed, including a partly filled carton?

Result: **476** with **1** left over Show your thinking.

2,400 ÷ 6 = 400
420 ÷ 6 = 70
36 ÷ 6 = 6
400 + 70 + 6 = 476
6 × 476 + 1 = 2,857
476 + 1 = 477

Answer: **477** shipping cartons

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