MATH STORY 73 · GRADE 4 · WORD PROBLEMS

The Remainder Counts

MathApex

Name: _____ Date: _____

Watch video

From the video 26 children, 4 per boat → 26 ÷ 4 = 6 remainder 2 → **7 boats**

1 Now it's your turn!

50 children, 6 per boat: how many boats do we need?

50 ÷ 6 does not divide evenly. The remainder still needs a boat!

50 ÷ 6 = ☐ remainder ☐

Boats: ☐

2 Divide in steps.

Split the number cleverly.

168 ÷ 7 = ☐

135 ÷ 5 = ☐

192 ÷ 8 = ☐

3 With remainders.

a) **50 ÷ 6 = ☐ remainder ☐** → boats: ☐

b) **62 ÷ 8 = ☐ remainder ☐** → cars: ☐

c) **37 ÷ 5 = ☐ remainder ☐** → bags: ☐

4 Multiplying big numbers.

Split into tens and ones.

31 × 12 = ☐

25 × 16 = ☐

18 × 15 = ☐

5 Think backwards.

Check with the inverse operation: 8 × 6 = ? Write the checks for task 2.

★ Brain teaser

150 candies, bags of 6 each: How many bags? How many candies do you need for 20 bags?

6 Written calculation.

Left: 168 ÷ 7. Right: 31 × 12. Line up the digits in columns.

MathApex

MATH STORY 73 · ANSWERS

The Remainder Counts

Watch video

1 Now it's your turn!

50 ÷ 6 = 8 remainder 2 → 9 boats

The 2 children left over need a ninth boat.

2 Divide in steps.

168 ÷ 7 = 24 135 ÷ 5 = 27 192 ÷ 8 = 24

3 With remainders.

50 ÷ 6 = 8 remainder 2 → 9 boats
62 ÷ 8 = 7 remainder 6 → 8 cars
37 ÷ 5 = 7 remainder 2 → 8 bags

4 Multiplying big numbers.

31 × 12 = 372 25 × 16 = 400 18 × 15 = 270

5 Think backwards.

24 × 7 = 168 27 × 5 = 135 24 × 8 = 192

★ Brain teaser

150 ÷ 6 = 25 remainder 0; for 20 bags you need 120, so nothing is missing – you have 30 more than you need.

6 In writing.

168 ÷ 7 = 24 31 × 12 = 372

For parents and teachers: This worksheet goes with the video "The Remainder Counts" (Math Story 73, Grade 4). Mental calculation with steps: split numbers cleverly. In word problems with a remainder, the question decides whether to round up.

More Math Stories with video and worksheet: **www.mathapex.app/en/math-stories/**