



GRADE 4 / WATCH MR DJ SOLVE

DIVIDING WITH REMAINDERS

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE**

Find $157 \div 6$ with a whole-number quotient and remainder. Use partial quotients or place-value division, then multiply back.

- 1 Take groups in chunks: $20 \times 6 = 120$ groups.
- 2 $6 \times 26 = 156$
- 3 $157 - 156 = 1$.
- 4 Check $6 \times 26 + 1 = 157$, and $0 \leq 1 < 6$.

Answer: **26 remainder 1**



REMEMBER The divisor times the quotient plus the remainder must equal the starting amount. A remainder is nonnegative and smaller than the divisor. Interpret it in context.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.

GRADE 4 / WORKED METHODS**DIVIDING WITH REMAINDERS**

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Build a quotient from useful groups

$157 \div 6 = 26 \text{ remainder } 1$

1. Take 20 groups of 6: 120. Subtract $157 - 120 = 37$.
2. Take 6 more groups: 36. Subtract $37 - 36 = 1$.
3. Total $20 + 6 = 26$ groups. Check $6 \times 26 + 1 = 157$ and $1 < 6$.

Starting amount	Groups taken	Amount left
157	20 (uses 120)	37
37	6 (uses 36)	1



GRADE 4 / WORKED METHODS

DIVIDING WITH REMAINDERS

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Interpret a remainder in a story

53 markers: 8 full boxes of 6, or 9 boxes for all

1. $53 = 6 \times 8 + 5$. Eight boxes can be completely full.
2. Five markers remain, so all markers need an additional box.
3. Choose the answer to fit the question: full boxes = 8; boxes to hold everything = 9.

GRADE 4 / PRACTICE

DIVIDING WITH REMAINDERS

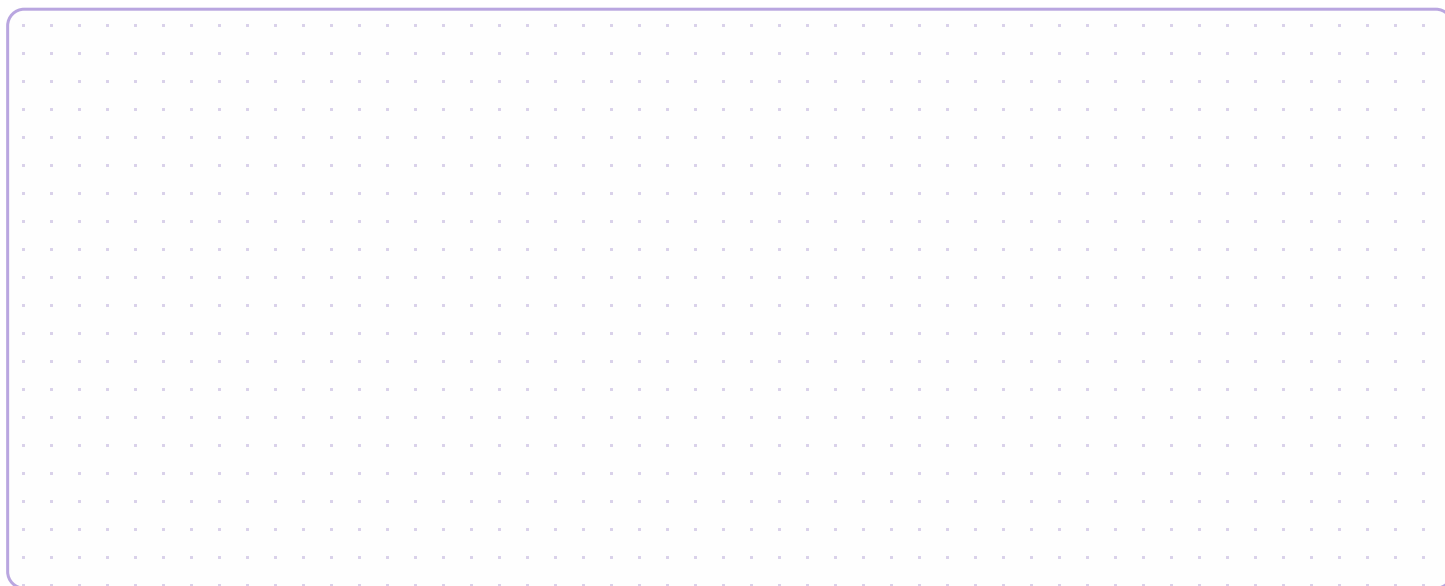
Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Mild

1. Find $846 \div 4$ with a whole-number quotient and remainder. Use partial quotients or place-value division, then multiply back.



My answer / conclusion: _____



Date _____

DIVIDING WITH REMAINDERS

A cartoon fox mascot with orange fur, large eyes, and a purple collar, holding a yellow pencil.

◀ Mild 2. Find $1,247 \div 6$ with a whole-number quotient and remainder. Use partial quotients or place-value division, then multiply back.

My answer / conclusion: _____

GRADE 4 / PRACTICE

DIVIDING WITH REMAINDERS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Medium

3. Find $903 \div 3$ with a whole-number quotient and remainder. Use partial quotients or place-value division, then multiply back.

My answer / conclusion: _____



Date _____

DIVIDING WITH REMAINDERS

A cartoon fox mascot with orange fur, large eyes, and a purple collar, holding a yellow pencil.

Medium 4. Find $2,765 \div 8$ with a whole-number quotient and remainder. Use partial quotients or place-value division, then multiply back.

My answer / conclusion: _____

GRADE 4 / PRACTICE

DIVIDING WITH REMAINDERS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Medium

5. Find $4,002 \div 5$ with a whole-number quotient and remainder. Use partial quotients or place-value division, then multiply back.

My answer / conclusion: _____



GRADE 4 / PRACTICE

DIVIDING WITH REMAINDERS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Spicy

6. A student writes $157 \div 6 = 25$ remainder 7. The multiplication check works. Explain why the division is unfinished and finish it.

Grid area for working out the division problem.

My answer / conclusion: _____



Date _____

DIVIDING WITH REMAINDERS

A cartoon fox mascot with orange fur, large eyes, and a purple collar, holding a yellow pencil.

🔥 Spicy 7. A class packs 53 markers into full boxes of 6. How many full boxes can it fill? How many boxes are needed to hold every marker? Explain.

My answer / conclusion: _____



Date _____

DIVIDING WITH REMAINDERS

A cartoon fox mascot with orange fur, large eyes, and a purple scarf, holding a yellow pencil.

8. Find all whole-number starting amounts that give quotient 12 when divided by 5. List them and explain why your list is complete.

My answer / conclusion: _____