



GRADE 7 · THE NUMBER SYSTEM · HOMEWORK

FOUR OPERATIONS WITH RATIONAL NUMBERS

Today's goal: I can add rational numbers to solve mathematical problems, add rational numbers to solve real-world problems, subtract rational numbers to solve mathematical problems, subtract rational numbers to solve real-world problems, multiply rational numbers to solve mathematical problems, multiply rational numbers to solve real-world problems, divide rational numbers to solve mathematical problems and divide rational numbers to solve real-world problems.



Pick your peppers!

Everyone does Mild & Medium. Then climb as high as you can.



Mild

Tan the Turtle



Medium

Digit the Fox



Spicy

Blaze the Dragon



Extra Spicy

Pi the Owl



REMEMBER

Single change → add the signed amount. Repeated change → multiply. Comparison or gap → subtract. Sharing → divide. Always finish by saying what the signed answer means in the situation.



FAMILY CORNER

No need to remember this math yourself! Ask your student to teach you Mr DJ's example, then try the first Mild problem together.



MILD

Tan the Turtle: Slow and steady. Warm up!

1

The temperature is -3°C and falls 4 more degrees. What is the new temperature?

Answer



OOPS ALERT

Careful on #1! The slip Mr DJ sees most: Answered 1 by subtracting the sizes.



◀◀ MEDIUM

Digit the Fox: Stretch your brain.

- 2 An account holds \$60. A payment of \$85 goes out. What is the balance? Say what it means.

Answer

- 3 Four charges of \$12 are made. What is the total change?

Answer

- 4 The temperature is -3°C and falls 4 degrees each hour for 3 hours. What is the new temperature?

Answer

- 5 A debt of \$75 is repaid equally over 5 weeks. How much is repaid each week?

Answer



🔥🔥🔥 **SPICY**

Blaze the Dragon: Bring the heat!

- 6 Starting from \$60, apply the \$85 payment and the four \$12 charges. What is the final balance?

Answer

- 7 Compare questions 1 and 4. Both mention -3 and 4 , but the answers differ. Explain why.

Answer



🔥🔥🔥🔥 **EXTRA SPICY**

Pi the Owl: Big-brain challenge.

- 8 In question 5, is the weekly repayment positive or negative? Explain what each sign would mean.

Answer



How did this sheet feel? ☐ Easy for me ☐ Just right ☐ Made me think

Stuck? Watch Mr DJ explain it

Step-by-step video lessons on YouTube: [youtube.com/@MathWithMrDJ](https://www.youtube.com/@MathWithMrDJ)

Brain break: daily puzzles

Three new math puzzles every day, free: puzzles.mathwithmrdj.com