



GRADE 7 · THE NUMBER SYSTEM · PRACTICE

ADDING & SUBTRACTING RATIONAL NUMBERS

Today's goal: I can add rational numbers, subtract rational numbers, add and subtract rational numbers and represent addition and subtraction of rational numbers on a number line.



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

WATCH MR DJ SOLVE

Find $6 - (-4)$.

1 Add the opposite: $6 + 4 = 10$.

Answer: **10**



REMEMBER Adding a positive moves **right**; adding a negative moves **left**. Subtracting means **adding the opposite**, so $a - b$ becomes $a + (-b)$, and $a - (-b)$ becomes $a + b$. Same signs: the moves combine. Different signs: they partly cancel.



MILD

Tan the Turtle: Slow and steady. Warm up!

1 Find $-7 + 2$.

Answer

2 Find $-7 + 12$.

Answer



OOPS ALERT

Careful on #1! The slip Mr DJ sees most: Answered -9 by adding sizes.



MEDIUM

Digit the Fox: Stretch your brain.

3 Find $-6 - (-4)$.

Answer

4 Find $-6 - 4$.

Answer

5 Find $\frac{1}{2} - (-\frac{1}{4})$.

Answer

6 Find $-\frac{3}{4} + \frac{1}{2}$.

Answer



SPICY

Blaze the Dragon: Bring the heat!

- 7 Compare your answers to questions 3 and 4. Which is larger, and why does that make sense?

Answer

- 8 Find $-\frac{7}{3} + \frac{7}{3}$. What is special about this pair, and what is the general rule?

Answer



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

Stuck? Watch Mr DJ explain it

"How to Add Integers" on YouTube: [youtube.com/@MathWithMrDJ](https://www.youtube.com/@MathWithMrDJ)

Brain break: daily puzzles

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