

MULTIPLYING & DIVIDING RATIONAL NUMBERS

Today's goal: I can multiply rational numbers, divide rational numbers and multiply and divide rational numbers.



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



REMEMBER **Multiplying or dividing:** same signs → positive, different signs → negative. **Adding:** the number line decides, and two negatives stay negative. Decide the sign first, then the size — it stops you carrying a sign error through the arithmetic.



MILD

Tan the Turtle: Slow and steady. Warm up!

1 Find -7×3 .

Answer

2 Find $-7 \times (-3)$.

Answer

3 Find $-7 + (-3)$.

Answer



OOPS ALERT

Careful on #1! The slip Mr DJ sees most: Answered 21.



🔊 **MEDIUM**

Digit the Fox: Stretch your brain.

4 Find $-36 \div 9$.

Answer

5 Find $-36 \div (-9)$.

Answer

6 Find $-\frac{1}{2} \times (-2^6)$.

Answer

7 Find $-\frac{3}{4} \div \frac{1}{2}$.

Answer



🔥🔥🔥 **SPICY**

Blaze the Dragon: Bring the heat!

- 8 Questions 2 and 3 use the same two numbers and give different signs. Explain why.

Answer

- 9 Find $(-2) \times (-3) \times (-4)$. Then state a rule for the sign of a product from how many negatives it contains.

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