



GRADE 6 · THE NUMBER SYSTEM · PRACTICE

MULTIPLYING & DIVIDING DECIMALS

Today's goal: I can fluently multiply multi-digit decimals using the standard algorithm, fluently divide a multi-digit decimal by a whole number, fluently divide a whole number by a multi-digit decimal and fluently divide multi-digit decimals using the standard algorithm.



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

WATCH MR DJ SOLVE

Compute 12.6×3 .

1 $126 \times 3 = 378$

2 one place $\rightarrow 37.8$.

Answer: **37.8**



REMEMBER **Multiply:** $3.02 \times 1.5 \rightarrow 302 \times 15 = 4530$; three decimal places $\rightarrow$ **4.53**. **Divide:** $18.9 \div 3.5 \rightarrow$ shift both one place $\rightarrow 189 \div 35 =$ **5.4**.



MILD

Tan the Turtle: Slow and steady. Warm up!

1 Compute 0.3×0.7 .

Answer

2 Compute 2.4×0.5 .

Answer



OOPS ALERT

Careful on #1! The slip Mr DJ sees most: Answered 2.1 — counted one place.



☹☹ **MEDIUM**

Digit the Fox: Stretch your brain.

3 Compute 4.05×2.6 .

Answer

4 Compute $8.4 \div 7$.

Answer

5 Compute $15.75 \div 2.5$.

Answer



☹☹☹ **SPICY**

Blaze the Dragon: Bring the heat!

6 Compute $6 \div 0.75$. Explain the shift you made.

Answer

7 A ribbon 4.5 m long is cut into 0.3 m pieces. How many pieces?

Answer



EXTRA SPICY

Pi the Owl: Big-brain challenge.

8

Leo says 0.8×0.9 must be bigger than 0.9 because multiplying makes things bigger. Compute it and explain his error.

Answer



How did this sheet feel?



Easy for me



Just right



Made me think

Stuck? Watch Mr DJ explain it

"Long Division With Decimals Step by Step" on YouTube:
[youtube.com/@MathWithMrDJ](https://www.youtube.com/@MathWithMrDJ)

Brain break: daily puzzles

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