



GRADE 6 · THE NUMBER SYSTEM

ADDING & SUBTRACTING DECIMALS

Today's goal: I can fluently add multi-digit decimals using the standard algorithm and fluently subtract multi-digit decimals using the standard algorithm.



Tan



Digit



Blaze



Pi



WARM-UP

Turn & talk · 1 min

$$3.5 + 2.75$$

- 1 Do it in your head. Don't say it out loud yet.

TURN & TALK

is it 6.25, or 3.80?



Decimal points line up. Always.

- 1 Stack so the points are in one vertical line — ignore how long each number is.
- 2 Fill empty places with **0**: 3.5 becomes 3.50. Same number, full columns.



BIG IDEA 2

$$3.50 + 2.75 = 6.25$$

- 1 Points aligned, hundredths under hundredths, tenths under tenths.

REMEMBER

Right-aligning the digits is the #1 error.



BIG IDEA 3

Whole numbers have a hidden point

1 20 is really 20.00

2 $20.00 - 13.47 = 6.53$

REMEMBER

Every whole number ends in an invisible .00



WATCH OUT!

Careful: 5.6 and 5.06 are different

1 $5.6 = 5.60$ (six tenths)

2 $5.06 =$ five and six hundredths

3 $5.60 - 5.06 = 0.54$, not 0

DON'T FALL FOR IT

Place value decides the size – not the digits.



SPOT THE SLIP!

Turn & talk

Something went wrong here...

THE PROBLEM

Compute $9.3 - 4.17$.

WHAT A STUDENT DID

Got 5.27 — subtracted 7 from 0 as if it were 7 from 10 without regrouping the tenths.

YOUR MISSION

What went wrong? What's the right answer?



WATCH MR DJ SOLVE

Copy the steps

Compute $9.3 - 4.17$.

1 $9.30 - 4.17 = 5.13$.

Answer: **5.13**



YOUR TURN

Whiteboards up!

Pick your pepper!



🌶️ MILD

Compute $6.2 + 3.45$.

#1 on your practice sheet



🌶️🌶️ MEDIUM

Compute $100 - 38.64$.

#3 on your practice sheet



🌶️🌶️🌶️ SPICY

A fence is built in three sections: 14.6 m, 9.85 m, and 22.3 m. What is the total length?

#6 on your practice sheet



How's it going?



3 • Got it!

I could teach it



2 • Almost

One more example, please



1 • Not yet

I need some help

NOW YOU!

Practice sheet: everyone does Mild & Medium, then climb the peppers.

Stuck? Look back at Mr DJ's example at the top of the sheet.

Need it again? Step-by-step videos on YouTube @MathWithMrDJ

Brain break: 3 new daily puzzles at puzzles.mathwithmrdj.com

