

# Add and Subtract Decimals

Lesson 1-5

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: \_\_\_\_\_

## Key Vocabulary

Level 1 support

Picture first, then the word, then a plain-language meaning. Say each word out loud.

*3.75 means 3 ones + 7 tenths + 5 hundredths — it is between 3 and 4*

### Decimal

A number with a dot that shows a part between whole numbers.

*In 4.38: the 4 = 4 ones, the 3 = 3 tenths (0.3), the 8 = 8 hundredths (0.08)*

### Place value

What a digit is worth based on where it sits in a number.

*0.7 = 7/10 — like 7 slices of a pizza cut into 10 equal slices*

### Tenths

The first spot after the decimal point. It shows parts out of 10.

*0.05 = 5/100 — like 5 pennies out of a dollar (100 pennies)*

### Hundredths

The second spot after the decimal point. It shows parts out of 100.

*15.7 becomes 15.70 so you can subtract  $15.70 - 8.36$  with aligned place values*

### Annex zeros

Adding zeros at the end of a decimal so numbers line up evenly.

## Key Ideas & Notes

- The space station's main fuel tank reads 128.75 liters.
- A resupply shuttle delivers 46.8 liters of fuel, but the thrusters used 19.35 liters during docking.
- What is the fuel level after both events?
- Plot each decimal on the number line, then find the sum or difference as indicated.

### Think About It

- What is the starting fuel amount?
- Which operation adds fuel and which removes fuel?
- Why is it important to line up the decimal points?

### My Notes

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## Guided Examples

### Example 1

**What is  $14.6 + 3.85$ ?**

**Solution:** Line up decimals:  $14.60 + 3.85$ . Hundredths:  $0 + 5 = 5$ . Tenths:  $6 + 8 = 14$ , write 4 carry 1. Ones:  $4 + 3 + 1 = 8$ . Tens: 1. Answer: 18.45.

**Answer:** A. 18.45

### Example 2

**What is  $20.3 - 7.48$ ?**

**Solution:** Rewrite as  $20.30 - 7.48$ . Annex a zero so both have two decimal places. Work carefully with borrowing:  $20.30 - 7.48 = 12.82$ .

**Answer:** A. 12.82

### Example 3

**What is  $9.05 + 4.7$ ?**

**Solution:** Line up decimals:  $9.05 + 4.70$ . Hundredths:  $5 + 0 = 5$ . Tenths:  $0 + 7 = 7$ . Ones:  $9 + 4 = 13$ . Answer: 13.75.

**Answer:** A. 13.75

# Write About the Math

## The Writing Revolution

I can explain my steps using the words decimal, place value, tenths, hundredths, and annex zeros.

### 1. Kernel Sentence subject + verb

**Model:** Decimal is a number with a dot that shows a part between whole numbers.

*Decimal es un número con un punto que muestra una parte entre números enteros.*

**Write a kernel sentence about decimal. Use a subject and a verb.**

*Escribe una oración base sobre decimal. Usa un sujeto y un verbo.*

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### 2. Sentence Expansion because · but · so

**Kernel:** Decimal matters in math

*Decimal importa en matemáticas*

Expand the kernel three ways. Add a reason, a contrast, and a result.

**because**  
*porque*

**Decimal matters in math because \_\_\_\_.**

*Decimal importa en matemáticas porque \_\_\_\_.*

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**but**  
*pero*

**Decimal matters in math, but \_\_\_\_.**

*Decimal importa en matemáticas, pero \_\_\_\_.*

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**so**  
*entonces*

**Decimal matters in math, so \_\_\_\_.**

*Decimal importa en matemáticas, entonces \_\_\_\_.*

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### 3. Sentence Types 4 ways to write a math idea

**Statement**  
*Afirmación*

Tell one true fact about decimal.  
*Di un hecho verdadero sobre decimal.*

**Decimal** \_\_\_\_.

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**Question**  
*Pregunta*

Ask a question about decimal.  
*Haz una pregunta sobre decimal.*

**How does** \_\_\_\_ ?  
*¿Cómo* \_\_\_\_ ?

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**Exclamation**  
*Exclamación*

Show excitement about decimal.  
*Muestra entusiasmo sobre decimal.*

**Wow,** \_\_\_\_ !  
*¡Guau,* \_\_\_\_ !

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**Command**  
*Mandato*

Tell a partner what to do with decimal.  
*Dile a un compañero qué hacer con decimal.*

**First,** \_\_\_\_ .  
*Primero,* \_\_\_\_ .

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### 4. Explain Your Reasoning use a sentence starter

**I lined up the** \_\_\_\_ **so that** \_\_\_\_ .  
*Alineé los* \_\_\_\_ *para que* \_\_\_\_ .

**My answer is** \_\_\_\_ **because** \_\_\_\_ .  
*Mi respuesta es* \_\_\_\_ *porque* \_\_\_\_ .

**People use this when** \_\_\_\_ .  
*La gente usa esto cuando* \_\_\_\_ .

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## Try It

Solve on your own. Check the answer key when you are done.

**1. What is  $50 - 23.47$ ?**

- A. 26.53
- B. 27.53
- C. 26.63
- D. 27.47

Show your work:

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**2. A student buys items costing \$4.59, \$12.75, and \$3.80. What is the total cost?**

- A. \$21.14
- B. \$20.14
- C. \$21.04
- D. \$21.24

Show your work:

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## Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

**A runner's lap times are 2.45 minutes, 2.6 minutes, and 2.38 minutes. Her personal record is 7.5 minutes total. Did she beat her record? Show all your work with decimal alignment and explain.**

*Sentence starter: First I lined up the decimals:  $2.45 + 2.60 + 2.38 = \underline{\quad}$ . Compared to 7.50, the runner        beat her record because       .*

Show your work:

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## Reflect — Exit Ticket

**What is  $32.6 - 14.85$ ?**

- A. 17.75
- B. 18.75
- C. 17.85
- D. 17.25

Your answer:

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## Answer Key & Teacher Guide

- 1. Try It 1:** A.  $26.53$  — Rewrite  $50$  as  $50.00$ . Then  $50.00 - 23.47 = 26.53$ . You must borrow across multiple places.
- 2. Try It 2:** A.  $\$21.14 - 4.59 + 12.75 + 3.80 = 21.14$ . Line up decimal points and add column by column.
- 3. Exit Ticket:** A.  $17.75$  — Rewrite as  $32.60 - 14.85$ . Hundredths:  $0 - 5 \rightarrow$  borrow  $\rightarrow 10 - 5 = 5$ . Tenths:  $5 - 8 \rightarrow$  borrow  $\rightarrow 15 - 8 = 7$ . Ones:  $1 - 4 \rightarrow$  borrow  $\rightarrow 11 - 4 = 7$ . Tens:  $2 - 1 = 1$ . Answer:  $17.75$ .

### Writing (TWR) — what to look for

- **Kernel sentence:** A complete sentence needs a subject and a verb. Example: Decimal is a number with a dot that shows a part between whole numbers.
- **Expansion:** *because* gives a reason, *but* shows a contrast or exception, *so* shows a result. Answers vary; each must keep the kernel idea and add the correct kind of detail.
- **Sentence types:** Statement ends with a period, question with "?", exclamation with "!", and a command starts with an action verb (a "bossy" verb).