

**PART I GET STARTED****Today's Mathematics**

We will use place value and models to add and subtract decimals.

**Essential Question**

Why must we align decimal points when adding or subtracting?

**DO NOW**

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1.  $4\frac{1}{2} \div \frac{3}{4}$

2.  $3\frac{1}{3} \div \frac{5}{6}$

3. Write  $\frac{7}{10}$  as a decimal.

4. Write 0.08 as a fraction.

**SEE IT**

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A rectangular base-ten model uses one unit for one whole. Combine 1.23 and 0.87. How many ones, tenths, and hundredths do you have before and after regrouping?

**QUICK WRITE | 2 MINUTES**

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Why does adding hundredths to tenths treat unequal units as if they were equal?

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**PART II INVESTIGATE****BUILD A MODEL AND LOOK FOR A PATTERN**

Use base-ten drawings for the first two rows. Record the matching whole-number calculation in hundredths. Then solve the other rows using aligned decimal points.

| Expression    | Model / hundredths | Sum or difference | Check |
|---------------|--------------------|-------------------|-------|
| $1.23 + 0.87$ |                    |                   |       |
| $2.43 - 0.73$ |                    |                   |       |
| $1.25 + 1.35$ |                    |                   |       |
| $1.58 - 0.09$ |                    |                   |       |

**COMPARE AND EXPLAIN**

Compare  $123 + 87$  with  $1.23 + 0.87$ . How are the sums related? Explain how place value keeps the units consistent.

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**PART III MAKE SENSE AND PRACTICE****WHAT WE CAN CONCLUDE**

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Align decimal points so like place values share a column. Add zeros when helpful, then add or subtract as with whole numbers. Keep the decimal point aligned in the result. Estimate and use an inverse operation to check.

**WORKED MODEL**

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$2.43 - 0.73 = 1.70$ . Regroup if needed. Check:  $1.70 + 0.73 = 2.43$ .

**MUST DO**

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1.  $16.05 + 2.94$

2.  $7.421 + 92.55$

3.  $38.72 - 8.61$

4.  $64.968 - 51.167$

5. You have \$20.00 and spend \$7.85 and \$4.60. How much remains?

**READY FOR MORE**

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A student writes  $4.8 + 0.37 = 0.85$ . Explain the place-value error and give the correct sum.

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**PART IV PUZZLE PRACTICE**

Name \_\_\_\_\_

Date \_\_\_\_\_

**DECODE THE MATHEMATICS REMINDER**

Solve. Match each result to the answer bank. Write its letter in the numbered code boxes.

**1.**  $1.23 + 0.87$

**2.**  $2.43 - 0.73$

**3.**  $1.25 + 1.35$

**4.**  $2.14 + 0.92$

**5.**  $0.73 + 0.86$

**6.**  $1.86 - 1.26$

**7.**  $3.72 - 0.5$

**8.**  $1.58 - 0.09$

**ANSWER BANK**

T: 0.60   P: 1.49   I: 1.59   I: 1.70   L: 2.10   N: 2.60   E: 3.06   U: 3.22

**CODE BOXES**

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
|   |   |   |   |   |   |   |   |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |