

# Warm-Up

| CST: #23                                                                                                                                                                                                                                                                                                                                                           | Review:                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Tony had a rope 8.35 meters long. He cut off 2.6 meters. How long was the piece he had left?</p> <p>A. 5.65 meters</p> <p>B. 5.75 meters</p> <p>C. 6.65 meters</p> <p>D. 6.75 meters</p> <p>Use two different methods to find the difference. What mistakes could students make to get the wrong answers? Can you come up with another common wrong answer?</p> | $  \begin{array}{r}  \$ 50.92 \\  + \$ 19.21 \\  \hline  \end{array}  $ <p>What mistakes are students likely to make? How could you fix that problem?</p> |
| Current:                                                                                                                                                                                                                                                                                                                                                           | Other:                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                           |

**Today's Objective/Standards: 5NS2.1\* Subtract Decimals**

**Topic: Subtracting Decimals Using Decomposition**

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

**Text: Chapter/Section:** \_\_\_\_\_

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**Warm-Up:**

**CST: #23**

(Students share their work. Brainstorm and discuss distractors.)

**Review:**

(Students share their work. Discuss common mistakes.)

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**Review Homework Notes:**

## Subtracting Decimals Using Decomposition

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**Lesson: “How could you subtract without regrouping?” [Discuss student’s answers.]**

ex 1)

$$\begin{array}{r} 3.000 \\ - 1.999 \\ \hline \end{array} = \begin{array}{r} 2.999 + .001 \\ - 1.999 \\ \hline 1.000 + .001 \\ = 1.001 \end{array}$$
$$\begin{array}{r} 2.991 \\ \cancel{3.000} \\ - 1.999 \\ \hline 1.001 \end{array}$$

ex 2)

$$\begin{array}{r} 4.000 \\ - 2.925 \\ \hline \end{array} = \begin{array}{r} 3.999 + .001 \\ - 2.925 \\ \hline 1.074 + .001 \\ = 1.075 \end{array}$$
$$\begin{array}{r} 3.991 \\ \cancel{4.000} \\ - 2.925 \\ \hline 1.075 \end{array}$$

You-Try 1)

$$\begin{array}{r} 5.000 \\ - 2.999 \\ \hline \end{array} = \begin{array}{r} 4.999 + .001 \\ - 2.999 \\ \hline 2.000 + .001 \\ = 2.001 \end{array}$$

You-Try 2)

$$\begin{array}{r} 6.000 \\ - 4.897 \\ \hline \end{array} = \begin{array}{r} 6.999 + .001 \\ - 4.897 \\ \hline 2.102 + .001 \\ = 2.103 \end{array}$$

ex 3)

$$\begin{array}{r} 10.00 \\ - 8.95 \\ \hline \end{array} = \begin{array}{r} 9.99 + .01 \\ - 8.95 \\ \hline 1.04 + .01 \\ = 1.05 \end{array}$$

You-Try 3)

$$\begin{array}{r} 100.00 \\ - 94.36 \\ \hline \end{array} = \begin{array}{r} 99.99 + .01 \\ - 94.36 \\ \hline 5.63 + .01 \\ = 5.64 \end{array}$$

## Subtracting Decimals Using Decomposition

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ex 4)

$$\begin{array}{r} 6.06 \\ - 3.38 \\ \hline \end{array} = \begin{array}{r} 6.00 + .06 \\ - 3.38 \\ \hline \end{array} = \begin{array}{r} 5.99 + .01 + .06 \\ - 3.38 \\ \hline 2.61 + .01 + .06 \\ = 2.68 \end{array}$$

You-Try 4)

$$\begin{array}{r} 5.50 \\ - 2.67 \\ \hline \end{array} = \begin{array}{r} 5.00 + .50 \\ - 2.67 \\ \hline \end{array} = \begin{array}{r} 4.99 + .01 + .50 \\ - 2.67 \\ \hline 2.42 + .01 + .50 \\ = 2.93 \end{array}$$

ex 5)

$$\begin{array}{r} 7.16 \\ - 2.87 \\ \hline \end{array} = \begin{array}{r} 7.00 + .16 \\ - 2.87 \\ \hline \end{array} = \begin{array}{r} 6.99 + .01 + .16 \\ - 2.87 \\ \hline 4.12 + .01 + .16 \\ = 4.29 \end{array}$$

You-Try 5)

$$\begin{array}{r} 8.15 \\ - 3.68 \\ \hline \end{array} = \begin{array}{r} 8.00 + .15 \\ - 3.68 \\ \hline \end{array} = \begin{array}{r} 7.99 + .01 + .15 \\ - 3.68 \\ \hline 5.12 + .01 + .15 \\ = 5.28 \end{array}$$

## Subtracting Decimals Using Decomposition

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ex 6)

$$\begin{array}{r} 82.043 \\ - 73.233 \\ \hline \end{array} \quad = \quad \begin{array}{r} 80.000 + 2.043 \\ - 73.233 \\ \hline \end{array} \quad = \quad \begin{array}{r} 79.999 + .001 + 2.043 \\ - 73.233 \\ \hline 6.766 + .001 + 2.043 \\ = 8.810 \end{array}$$

You-Try 6)

$$\begin{array}{r} 91.038 \\ - 62.219 \\ \hline \end{array} \quad = \quad \begin{array}{r} 90.000 + 1.038 \\ - 62.219 \\ \hline \end{array} \quad = \quad \begin{array}{r} 89.999 + .001 + 1.038 \\ - 62.219 \\ \hline 27.780 + .001 + 1.038 \\ = 28.819 \end{array}$$

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**Homework:**