

Take out your Spiral/Comp notebook or loose leaf paper on which you were instructed to draw boxes and show all work. If you did not follow these instructions, please fill out a pink slip. Write the number of problems you completed at the top of your paper (13) and start correcting.

18.  $28.6 - 0.975 = \underline{27.625}$       19.  $5.6 - 0.105 = \underline{5.495}$   
 20.  $7.03 + 33.006 = \underline{40.036}$       21.  $57.42 + 4 + 1.602 = \underline{63.022}$   
 22.  $2.25 + 65.47 + 2.333 = \underline{70.053}$       23.  $18.419 - 6.47 = \underline{11.949}$   
 24.  $83 - 12.76 = \underline{70.24}$       25.  $102.01 - 95.602 = \underline{6.408}$

26. **Multiple Representations** Ursula wrote the sum  $5.815 + 6.021$  as a sum of two mixed numbers.
- a. What sum did she write?  $5\frac{815}{1,000} + 6\frac{21}{1,000} = 11\frac{836}{1,000}$
- b. Compare the sum of the mixed numbers to the sum of the decimals.  $11\frac{836}{1,000} = 11.836$

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Use the café menu to answer 27-29.

27. Stephen and Jahmya are having lunch. Stephen buys a garden salad, a veggie burger, and lemonade. Jahmya buys a fruit salad, a toasted cheese sandwich, and a bottle of water. Whose lunch cost more? How much more?

$\begin{array}{r} 2.29 \\ + 4.75 \\ + 1.29 \\ \hline 8.33 \end{array}$       Jahmya; \$0.54 more       $\begin{array}{r} 8.87 \\ - 8.33 \\ \hline 0.54 \end{array}$

28. Jahmya wants to leave \$1.75 as a tip for her server. She has a \$20 bill. How much change should she receive after paying for her food and leaving a tip?

$\underline{\$9.38}$

29. **What If?** In addition to his meal, Stephen orders a fruit salad for take-out, and wants to leave \$2.25 as a tip for his server. He has a \$10 bill and a \$5 bill. How much change should he receive after paying for his lunch, the fruit salad, and the tip?

$\begin{array}{r} 8.33 \\ + 2.89 \\ + 2.25 \\ \hline 13.47 \end{array}$       \$1.53

30. A carpenter who is installing cabinets uses thin pieces of material called shims to fill gaps. The carpenter uses four shims to fill a gap that is 1.2 centimeters wide. Three of the shims are 0.75 centimeter, 0.125 centimeter, and 0.09 centimeter wide. What is the width of the fourth shim?

$\begin{array}{r} 1.20 \\ - 1.347 \\ \hline 0.23 \end{array}$       0.235 centimeter

Café Menu	
Garden Salad	\$2.29
Fruit Salad	\$2.89
Veggie Burger	\$4.75
Toasted Cheese Sandwich	\$4.59
Bottle of Water	\$1.39
Lemonade	\$1.29

Jahmya

$\begin{array}{r} 2.89 \\ + 4.59 \\ + 1.39 \\ \hline 8.87 \end{array}$

$\$8.87$


$\begin{array}{r} 20.00 \\ - 10.62 \\ \hline 9.38 \end{array}$        $+ 1.75 = 11.13$        $\$10.62$

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## Operations With Integers

**Add & Subtract**

Same Signs	Different Signs
↓	↓
Add & Keep the sign	Subtract Keep the sign of the bigger number



Remember... When you subtract integers, you...  
**Make 2 Marks**

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$-3.5 + (-4.9)$ $\begin{array}{r} -3.5 \\ + -4.9 \\ \hline -8.4 \end{array}$	<p><b>Add &amp; Subtract</b></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="padding: 5px;">Same Signs</td> <td style="padding: 5px;">Different Signs</td> </tr> <tr> <td style="padding: 5px;">↓</td> <td style="padding: 5px;">↓</td> </tr> <tr> <td style="padding: 5px;">Add &amp; Keep the sign</td> <td style="padding: 5px;">Subtract Keep the sign of the bigger number</td> </tr> </table>	Same Signs	Different Signs	↓	↓	Add & Keep the sign	Subtract Keep the sign of the bigger number	$-0.6 + (-2.5)$ $\begin{array}{r} -0.6 \\ + -2.5 \\ \hline -3.1 \end{array}$
Same Signs	Different Signs							
↓	↓							
Add & Keep the sign	Subtract Keep the sign of the bigger number							
$3 + (-7.5) + 1.2$ $\begin{array}{l} 3 + 1.2 + (-7.5) \\ 4.2 + (-7.5) \\ \begin{array}{r} 7.5 \\ -4.2 \\ \hline -3.3 \end{array} \end{array}$	$-6.5 + (-0.15) + (-0.2)$ $\begin{array}{l} -6.50 \\ + -0.15 \\ + -0.20 \\ \hline -6.85 \end{array}$							

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$-3.7 + (+4.9)$

$-3.7 + 4.9$

$$\begin{array}{r} 4.9 \\ -3.7 \\ \hline 1.2 \end{array}$$



Remember... When you subtract integers, you...  
Make 2 Marks

$-1.6 + 2.1$

$$\begin{array}{r} -1.6 \\ + 2.1 \\ \hline -3.7 \end{array}$$

---

$4 + (+0.25) - 0.5$

$4.25 - 0.5$

$$\begin{array}{r} 34.25 \\ -0.50 \\ \hline 3.75 \end{array}$$

**Add & Subtract**

Same Signs	Different Signs
↓	↓
Add & Keep the sign	Subtract Keep the sign of the bigger number

$-0.02 + 9.02 - 0.04$

$$\begin{array}{r} -0.02 \\ + 9.02 \\ \hline 9.00 \\ - 0.04 \\ \hline 8.96 \end{array}$$

$-9.04 + 0.04$



$-9.08$

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**LESSON**  
**5.3** **Multiplying Decimals** pg.120

### Multiplying Decimals

To multiply decimals, first multiply as you would with whole numbers. Then place the decimal point in the product. The number of decimal places in the product equals the sum of the number of decimal places in the factors.

**EXAMPLE 1**   **6.NS.2.3**

Delia bought 3.8 pounds of peppers. The peppers cost \$1.99 per pound. What was the total cost of Delia's peppers?

$$\begin{array}{r} 1.99 \quad \leftarrow 2 \text{ decimal places} \\ \times 3.8 \quad \leftarrow + 1 \text{ decimal place} \\ \hline 1592 \\ + 5970 \\ \hline 7.562 \quad \leftarrow 3 \text{ decimal places} \end{array}$$

The peppers cost \$7.56. Round the answer to hundredths to show a dollar amount.

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## Estimating to Check Reasonableness pg. 121

In Example 1, you used estimation to check whether the decimal point was placed correctly in the product. You can also use estimation to check that your answer is reasonable.

### EXAMPLE 2



FL 6.NS.2.3

Blades of grass grow 3.75 inches per month. If the grass continues to grow at this rate, how much will the grass grow in 6.25 months?

$$\begin{array}{r}
 3.75 \quad \leftarrow 2 \text{ decimal places} \\
 \times 6.25 \quad \leftarrow + 2 \text{ decimal places} \\
 \hline
 1875 \\
 7500 \\
 + 225000 \\
 \hline
 23.4375 \quad \leftarrow 4 \text{ decimal places}
 \end{array}$$

The grass will grow 23.4375 inches in 6.25 months.

Estimate to check whether your answer is reasonable.

Round 3.75 to the nearest whole number. 4

Round 6.25 to the nearest whole number. 6

Multiply the whole numbers. 4 × 6 = 24

The answer is reasonable because 24 is close to 23.4375.

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$$1.5 \times 0.41$$

$$\begin{array}{r}
 0.41 \quad \leftarrow 2 \\
 \times 1.5 \quad \leftarrow 1 \\
 \hline
 205 \\
 + 0410 \\
 \hline
 0.615 \quad \leftarrow 3
 \end{array}$$

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$$3.13 \times 4.69$$

$$\begin{array}{r}
 \overset{\uparrow}{3} \overset{\uparrow}{13} \leftarrow 2 \\
 \times 4.69 \leftarrow 2 \\
 \hline
 + \overset{\cdot}{1} \overset{\cdot}{2} \overset{\cdot}{8} \overset{\cdot}{1} \overset{\cdot}{7} \\
 125200 \\
 \hline
 \boxed{14.6797} \leftarrow 4
 \end{array}$$

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$$5.48 \times 15.12$$

$$\begin{array}{r}
 15.12 \\
 \times 5.48 \\
 \hline
 12096 \\
 60480 \\
 756000 \\
 \hline
 82.8576
 \end{array}$$

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I am going to hand back the Integer Operation Test.

I am also going to give you a Test Corrections sheet that needs to go in the front of your Assessment tab.

Test corrections will be due Tuesday, Sept 18.

Spiral Review 3 corrections and SR 4 are due tomorrow.

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