

Method #2: Stacking

$$\begin{array}{r}
 0.05 \\
 0.20 \\
 1.00 \\
 \hline
 3 \overline{)3.75} \\
 \underline{3.00} \\
 0.75 \\
 \underline{0.60} \\
 0.15 \\
 \underline{0.15} \\
 0
 \end{array}$$

1.25

This method looks very similar to the traditional method. We are showing all of our steps separately and in decimal notation.

Let's start with our dividend, what number is in the 1's place?
[3]

How many times can 3 go into 3?
[1]

Multiply 3 by 1.00 and then subtract. Then look at the tenths place. 3 will have to be multiplied by a number smaller than 1. How many times does 3 go in 7?
[2]

So we will multiply 3 by 2tenths. What is 3 times 2tenths?
[6tenths or 60 hundredths]

Subtract that from 75hundredths, and you will get 15hundredths. Now finish up the rest of the problem.

(Debrief the answer and make any necessary mitigations)

You Try #1

Guess Method

Stacking Method

$$\begin{array}{r}
 2 \overline{)6.50} \\
 \underline{2.00} \quad 1.00 \\
 4.50 \\
 \underline{2.00} \quad 1.00 \\
 2.50 \\
 \underline{2.00} \quad 1.00 \\
 0.50 \\
 \underline{0.20} \quad 0.10 \\
 0.30 \\
 \underline{0.20} \quad 0.10 \\
 0.10 \\
 \underline{0.10} \quad 0.05 \\
 0 \quad 3.25
 \end{array}$$

0.05

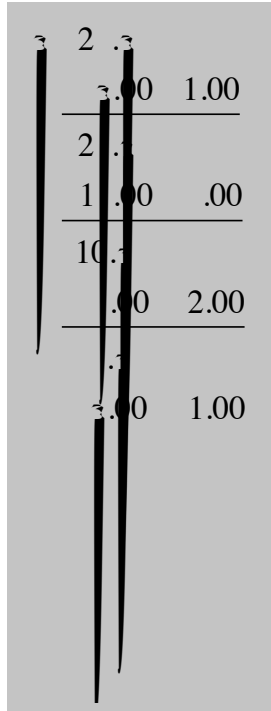
0.20

You Try#2

Guess method without decimals

Guess Method with decimals

Stacking Method



Guess Method

Stacking Method

$$\begin{array}{r} 2.4 \quad 15.12 \\ - 4.80 \quad 2.00 \\ \hline 10.32 \\ - 4.80 \quad 2.00 \\ \hline \end{array}$$

You Try #3

Guess Method

Stacking Method

Warm-Up

CST: 4NS 3.4	CST: 5NS 2.2
<div data-bbox="129 359 212 436" style="border: 1px solid black; padding: 5px; display: inline-block;">42</div> <div data-bbox="344 359 548 470" style="background-color: #cccccc; padding: 10px; display: inline-block; margin-left: 20px;"> $3 \overline{)2835}$ </div> <p data-bbox="129 562 243 724"> A 845 B 854 C 945 D 954 </p> <p data-bbox="129 976 560 1018">*Solve this problem 2 ways.</p>	<div data-bbox="841 359 924 436" style="border: 1px solid black; padding: 5px; display: inline-block;">31</div> <div data-bbox="938 359 1498 470" style="background-color: #cccccc; padding: 10px; display: inline-block; margin-left: 20px;"> What is the answer to this division problem? </div> <div data-bbox="1068 478 1271 556" style="background-color: #cccccc; padding: 10px; display: inline-block; margin-left: 20px;"> $12 \overline{)246}$ </div> <p data-bbox="841 583 958 745"> A 2.05 B 2.5 C 20.5 D 25 </p> <p data-bbox="841 966 1461 1092">*Describe common errors for two answer choices. What is a good mitigation for fixing these errors?</p>
CST: 5NS 2.2	CST: 5NS 2.2
<div data-bbox="142 1157 225 1234" style="border: 1px solid black; padding: 5px; display: inline-block;">29</div> <div data-bbox="337 1157 680 1241" style="background-color: #cccccc; padding: 10px; display: inline-block; margin-left: 20px;"> $35,705 \div 37$ </div> <p data-bbox="129 1371 243 1533"> A 89 B 843 C 925 D 965 </p> <p data-bbox="129 1753 755 1879">*Which answer could you immediately eliminate? How could you teach others to eliminate incorrect answers?</p>	<div data-bbox="850 1157 933 1234" style="border: 1px solid black; padding: 5px; display: inline-block;">31</div> <div data-bbox="1019 1157 1344 1241" style="background-color: #cccccc; padding: 10px; display: inline-block; margin-left: 20px;"> $0.513 \div 0.63$ </div> <p data-bbox="841 1381 974 1543"> A 0.513 B 0.63 C 5.13 D 6.3 </p> <p data-bbox="841 1764 1388 1806">* How are answers A and C similar?</p>