

Multi-digit subtraction:

1. Show how to add base 5. Show your thinking with numbers, words or pictures.

a. 
$$\begin{array}{r} 4 \ 1 \ 3_5 \\ - 1 \ 3 \ 4_5 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 3 \ 0 \ 1_5 \\ - 1 \ 4 \ 2_5 \\ \hline \end{array}$$

2. Show how to subtract with the expanded algorithm:

a. 
$$\begin{array}{r} 5 \ 2 \ 4 \\ - 1 \ 8 \ 9 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 6 \ 0 \ 3 \\ - 2 \ 6 \ 5 \\ \hline \end{array}$$

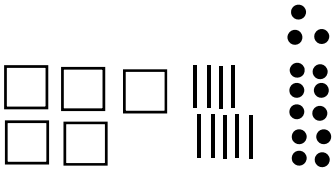
3. How could you show the negative numbers algorithm with 3 digits? Show your way with the problem:

$$\begin{array}{r} 5 \ 2 \ 4 \\ - 1 \ 8 \ 9 \\ \hline \end{array}$$

4. For each step, write out what you would say as a teacher modeling the process:

	$\begin{array}{r} 524 \\ - 189 \\ \hline \end{array}$	
	$\begin{array}{r} 5\overset{1}{\cancel{2}}14 \\ + 189 \\ \hline \end{array}$	
	$\begin{array}{r} 5\overset{1}{\cancel{2}}14 \\ + 189 \\ \hline 5 \end{array}$	
	$\begin{array}{r} \overset{4}{\cancel{5}}\overset{11}{\cancel{2}}14 \\ + 189 \\ \hline 5 \end{array}$	
	$\begin{array}{r} \overset{4}{\cancel{5}}\overset{11}{\cancel{2}}14 \\ + 189 \\ \hline 35 \end{array}$	
	$\begin{array}{r} \overset{4}{\cancel{5}}\overset{11}{\cancel{2}}14 \\ + 189 \\ \hline 335 \end{array}$	

5. For each step, fill in the missing manipulative picture, number word or explanatory sentence:

	$\begin{array}{r} 603 \\ - 265 \\ \hline \end{array}$	
		<p>I need more ones to be able to take away 5 ones. I don't have any tens to trade, so first I need to trade 1 hundred for 10 tens.</p> <p>When I do that, I cross off the 6 in the hundreds place and change it to 5 hundreds, and then I change the 0 tens to being 10 tens.</p>
		
	$\begin{array}{r} \overset{5}{\cancel{6}} \overset{9}{\cancel{10}} 13 \\ + 265 \\ \hline 8 \end{array}$	
		<p>Take away 6 tens from 9 tens. Then there are 3 tens left. Write the 3 tens in the tens column of the answer.</p>
