

Directions:

- Solve each of the following subtraction problems with a model. You may use pennies, dimes, and dollars to represent ones, tens, and hundreds or you may print and cut out [paper base ten blocks](#).
- Go through the steps you used to solve the problem with a model again. This time record each step with paper and pencil.

Note: ■ represents 100 | represents 10 • represents one

- LaRae had 174 baseball cards. When he sorted them he found he had 45 duplicates, so he gave the duplicates to his little sister. How many baseball cards does he have left in his collection?

Actions	Base 10 Blocks	Paper & Pencil Procedure
Represent 174.	■ 	$\begin{array}{r} 174 \\ - 45 \\ \hline \end{array}$
Trade 1 ten for 10 ones. Now you have 6 tens and 14 ones, so you can subtract 5 ones.	■ 	$\begin{array}{r} 61 \\ 1\cancel{7}4 \\ - 45 \\ \hline \end{array}$
Subtract 5 from 14 and record 9 in the ones place.	■ 	$\begin{array}{r} 61 \\ 1\cancel{7}4 \\ - 45 \\ \hline 9 \end{array}$
Subtract 4 tens (40) from 6 tens (60) and record 2 in the tens place. There are no hundreds to subtract, so record 1 in the hundreds place.	■ 	$\begin{array}{r} 61 \\ 1\cancel{7}4 \\ - 45 \\ \hline 129 \end{array}$

- Lynda sold her bicycle at a garage sale for \$75. She used the money she earned at the garage sale, along with money out of her savings account, to buy a new bicycle that cost \$235. How much money did she withdraw from her savings account?

Actions	Base 10 Blocks	Paper & Pencil Procedure
Represent 235.	■ ■ 	$\begin{array}{r} 235 \\ - 75 \\ \hline \end{array}$
Subtract 5 from 5 and record 0 in the ones place.	■ ■	$\begin{array}{r} 235 \\ - 75 \\ \hline 0 \end{array}$
Trade 1 hundred for 10 tens. Now you have 1 hundred and 13 tens, so you can subtract 7 tens.	■ 	$\begin{array}{r} 1 \\ \cancel{2}35 \\ - 75 \\ \hline 0 \end{array}$
Subtract 7 tens (70) from 13 tens (130) and record 6 in the tens place.	■ 	$\begin{array}{r} 1 \\ \cancel{2}35 \\ - 75 \\ \hline 60 \end{array}$
There are 0 hundreds to subtract, so record 1 in the hundreds place.	■ 	$\begin{array}{r} 1 \\ \cancel{2}35 \\ - 75 \\ \hline 160 \end{array}$



5. Taneisha won a jar of 234 pennies by having the closest estimate for the numbers of pennies in the jar. She estimated 219 pennies. How far off was her estimate?

Actions	Base 10 Blocks	Paper & Pencil Procedure
Represent 234.	■ ■ • • • •	$\begin{array}{r} 234 \\ - 219 \\ \hline \end{array}$
Trade 1 ten for 10 ones. Now you have 2 tens and 14 ones, so you can subtract 9 ones.	■ ■ • • • • • • • • • •	$\begin{array}{r} 21 \\ 234 \\ - 219 \\ \hline \end{array}$
Subtract 9 from 14 and record 5 in the ones place.	■ ■ • • • • •	$\begin{array}{r} 21 \\ 234 \\ - 219 \\ \hline 5 \end{array}$
Subtract 1 ten (10) from 2 tens (20) and record 1 in the tens place.	■ ■ • • • • •	$\begin{array}{r} 21 \\ 234 \\ - 219 \\ \hline 15 \end{array}$
Subtract 200 from 200. You do not need to record a 0 in the hundreds place.	• • • • •	$\begin{array}{r} 21 \\ 234 \\ - 219 \\ \hline 15 \end{array}$

6. Only seventh and eighth grade students at Washington Middle School can participate in the school sports program. A total of 408 students attend the school and 143 of those students are in sixth grade. How many students are eligible for sports?

Actions	Base 10 Blocks	Paper & Pencil Procedure
Represent 408.	■ ■ ■ ■ • • • • •	$\begin{array}{r} 408 \\ - 143 \\ \hline \end{array}$
Subtract 3 from 8 and record 5 in the ones place.	■ ■ ■ ■ • • • • •	$\begin{array}{r} 408 \\ - 143 \\ \hline 5 \end{array}$
Trade 1 hundred for 10 tens. Now you have 3 hundreds and 10 tens, so you can subtract 4 tens.	■ ■ ■ • • • • •	$\begin{array}{r} 31 \\ 408 \\ - 143 \\ \hline 5 \end{array}$
Subtract 4 tens (40) from 10 tens (100) and record 6 in the tens place.	■ ■ ■ • • • • •	$\begin{array}{r} 31 \\ 408 \\ - 143 \\ \hline 65 \end{array}$
Subtract 1 hundred from 3 hundreds and record 2 in the hundreds place.	■ ■ • • • • •	$\begin{array}{r} 31 \\ 408 \\ - 143 \\ \hline 265 \end{array}$