



Adding to 100 with Base Ten Blocks & Decomposing

2.NBT.B.5

Adding with Base Ten Blocks

$$24 + 32 = \boxed{}$$

Tens	Ones

 +

Tens	Ones

 =

Tens	Ones

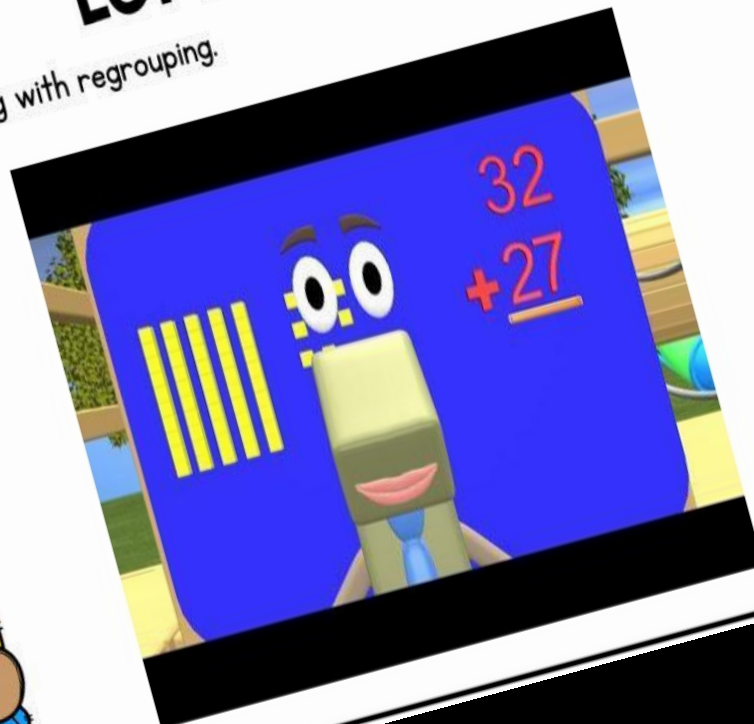
Drag and drop the tens and ones blocks into the chart on this side to add them together. Count them up to find the answer.

2nd Grade

Digital Lesson & Printable Recording Sheet

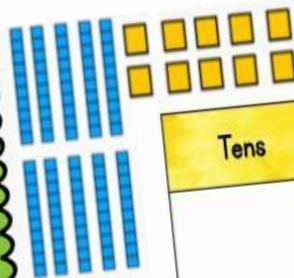
Let's Watch!

Learn about adding with regrouping.



Collaborate and Share

Work with a partner or your group to make your own addition with regrouping problem. Write a response to the class explaining how you knew your problem would require regrouping.



$$\boxed{} + \boxed{} = \boxed{}$$

Tens	Ones

Tens	Ones

Tens	Ones
<div>□</div>	<div>□</div>

I knew I would need to regroup in this problem because...



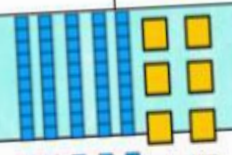
©2014 Edmentum

Adding by Decomposing

Line problems up vertically to line up the place value. You can decompose numbers into expanded form to help add them. Show the expanded form and the base ten block form below.

Use the chart to solve...

$$\begin{array}{r} 56 \\ + 38 \\ \hline \end{array}$$

Expanded Form	Base Ten Blocks	Answer				
$50 + 6$	<table border="1"><thead><tr><th>Tens</th><th>Ones</th></tr></thead><tbody><tr><td></td><td></td></tr></tbody></table>	Tens	Ones			<div style="border: 1px solid black; width: 100px; height: 100px; margin: 20px auto;"></div>
Tens	Ones					
$30 + 8$	<table border="1"><thead><tr><th>Tens</th><th>Ones</th></tr></thead><tbody><tr><td></td><td></td></tr></tbody></table>	Tens	Ones			
Tens	Ones					
<div style="border: 1px solid green; width: 40px; height: 40px; display: inline-block;"></div> + <div style="border: 1px solid green; width: 40px; height: 40px; display: inline-block;"></div>						

Decompose to Solve

$$\begin{array}{r} 54 \\ + 28 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ + 53 \\ \hline \end{array}$$

	+	
	+	
	+	

	+	
	+	
	+	

Addition Puzzles

Match the problems with the answers to complete the puzzles.

53

+ 17

38

+ 29

50 + 3

+ 10 + 7

30 + 8

+ 20 + 9

67

70

©2016 Peter

Name: _____ Date: _____

Add with Blocks and Decompose Lesson Recording Sheet: Day 2

Explore: Fill in the numbers in the boxes to show how to add and regroup.

$$49 + 35 = \square$$

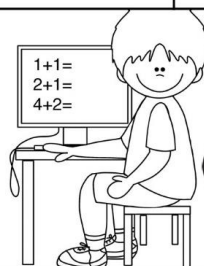
Tens	Ones

 +

Tens	Ones

 =

Tens	Ones



Be sure to look at the ones column when you are done. If you have more than 10 ones, you have to bundle them to make a new group of ten.

Explore: Fill in the numbers in the boxes to show how to add and regroup.

$$23 + 68 = \square$$

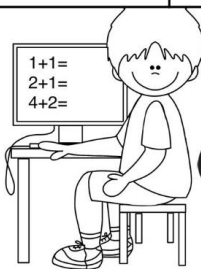
Tens	Ones

 +

Tens	Ones

 =

Tens	Ones



Be sure to look at the ones column when you are done. If you have more than 10 ones, you have to bundle them to make a new group of ten.

Name: _____ Date: _____

Add with Blocks and Decompose Lesson Recording Sheet: Day 3

Collaborate & Share: Work with a partner or your group to make your own addition problem. Write an explanation to the class about why expanded form helps you understand when you need to regroup.

	Expanded Form
<div style="border: 1px solid black; width: 60px; height: 30px; margin: 5px;"></div>	<div style="border: 1px solid black; width: 40px; height: 30px; margin: 5px;"></div> + <div style="border: 1px solid black; width: 40px; height: 30px; margin: 5px;"></div>
+ <div style="border: 1px solid black; width: 60px; height: 30px; margin: 5px;"></div>	<div style="border: 1px solid black; width: 40px; height: 30px; margin: 5px;"></div> + <div style="border: 1px solid black; width: 40px; height: 30px; margin: 5px;"></div>
<div style="border: 1px solid black; width: 60px; height: 30px; margin: 5px;"></div>	<div style="border: 1px solid black; width: 40px; height: 30px; margin: 5px;"></div> <div style="border: 1px solid black; width: 40px; height: 30px; margin: 5px;"></div>

Expanded form helps me know when to regroup because...



Close & Reflect: Circle "regrouping" or "no regrouping" under each problem. Explain how you knew which problems needed regrouping.

$$\begin{array}{r} 19 \\ + 45 \\ \hline \end{array}$$

Regrouping
No regrouping

$$\begin{array}{r} 85 \\ + 4 \\ \hline \end{array}$$

Regrouping
No regrouping

$$\begin{array}{r} 25 \\ + 34 \\ \hline \end{array}$$

Regrouping
No regrouping

$$\begin{array}{r} 74 \\ + 18 \\ \hline \end{array}$$

Regrouping
No regrouping

$$\begin{array}{r} 47 \\ + 52 \\ \hline \end{array}$$

Regrouping
No regrouping

$$\begin{array}{r} 68 \\ + 27 \\ \hline \end{array}$$

Regrouping
No regrouping

