

# Adding 2-Digit Numbers with Regrouping

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## GET STARTED

1  $4 + 3 + 5$

$$\begin{array}{r} 4 \\ 3 \\ + 5 \\ \hline \end{array}$$

2  $51 + 47$

$$\begin{array}{r} 51 \\ + 47 \\ \hline \end{array}$$

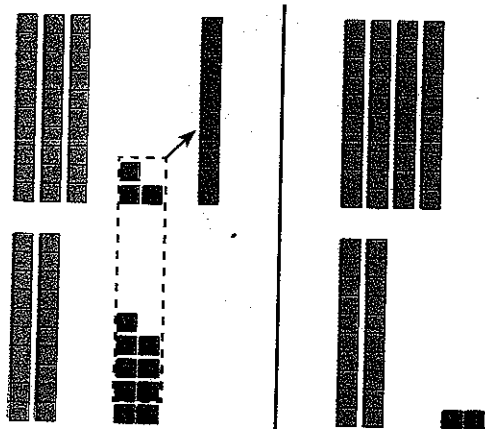
3  $46 + 8$

$$\begin{array}{r} 46 \\ + 8 \\ \hline \end{array}$$

4  $31 + 29$

$$\begin{array}{r} 31 \\ + 29 \\ \hline \end{array}$$

The model shows how to find the sum of 33 and 29.



\_\_\_\_\_ tens \_\_\_\_\_ ones = \_\_\_\_\_

**BUILD  
THE  
CONCEPT**

## TRY IT TOGETHER

Find each sum. Regroup as needed.

5  $19 + 24$

$$\begin{array}{r} 19 \\ + 24 \\ \hline \end{array}$$

6  $72 + 54$

$$\begin{array}{r} 72 \\ + 54 \\ \hline \end{array}$$

7  $45 + 38$

$$\begin{array}{r} 45 \\ + 38 \\ \hline \end{array}$$

8  $97 + 14$

$$\begin{array}{r} 97 \\ + 14 \\ \hline \end{array}$$

## WORK ON YOUR OWN

### Add Two 2-Digit Numbers with Regrouping

#### Using Symbols

1.  $63 + 78$

$$\begin{array}{r} 63 \\ + 78 \\ \hline \end{array}$$

2.  $\begin{array}{r} 1 \\ 63 \\ + 78 \\ \hline 1 \end{array}$

3.  $\begin{array}{r} 1 \\ 63 \\ + 78 \\ \hline 141 \end{array}$

So,  $63 + 78 = 141$ .

#### Using Words

Write the problem vertically. Line up digits with the same place value.

Add the digits in the ones column. If the sum has more than one digit, regroup. To regroup, write the ones digit of the sum in the ones column under the equal bar and the tens digit above the tens column.

Add the digits in the tens column. Write the sum in the tens column under the equal bar.

HOW TO

# Adding Three 2-Digit Numbers with Regrouping

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## GET STARTED

1  $9 + 6 + 5$

$$\begin{array}{r} 9 \\ 6 \\ + 5 \end{array}$$

2  $18 + 35$

$$\begin{array}{r} 18 \\ + 35 \end{array}$$

3  $49 + 25 + 17$

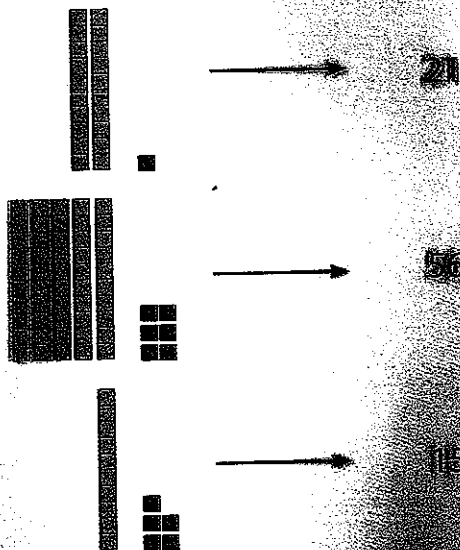
$$\begin{array}{r} 49 \\ 25 \\ + 17 \end{array}$$

4  $24 + 46 + 87$

$$\begin{array}{r} 24 \\ 46 \\ + 87 \end{array}$$

The model shows how to find the sum of 21, 56, and 15.

**BUILD THE CONCEPT**



\_\_\_\_\_ tens \_\_\_\_\_ ones = \_\_\_\_\_

# TRY IT TOGETHER

Find each sum. Regroup as needed.

5  $92 + 76 + 51$

$$\begin{array}{r} 92 \\ 76 \\ + 51 \\ \hline \end{array}$$

6  $30 + 36 + 28$

$$\begin{array}{r} 30 \\ 36 \\ + 28 \\ \hline \end{array}$$

7  $71 + 39 + 49$

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

# WORK ON YOUR OWN



## Add Three 2-Digit Numbers with Regrouping

### Using Symbols

1.  $29 + 67 + 11$

$$\begin{array}{r} 29 \\ 67 \\ + 11 \\ \hline \end{array}$$

### Using Words

Write the problem vertically. Line up digits with the same place value.

$$\begin{array}{r} 29 \\ 67 \\ + 11 \\ \hline 7 \end{array}$$

Add the digits in the ones column. If the sum of the digits in the ones column is more than one digit, regroup.

To regroup, write the ones digit of the sum in the ones column under the equal bar and the tens digit of the sum above the tens column.

$$\begin{array}{r} 29 \\ 67 \\ + 11 \\ \hline 107 \end{array}$$

Add the digits in the tens column. Write the sum in the tens column under the equal bar.

# Adding 3-Digit Numbers with Regrouping

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## GET STARTED

1  $68 + 17$

$$\begin{array}{r} 68 \\ + 17 \\ \hline \end{array}$$

2  $86 + 75 + 50$

$$\begin{array}{r} 86 \\ 75 \\ + 50 \\ \hline \end{array}$$

3  $276 + 110 + 293$

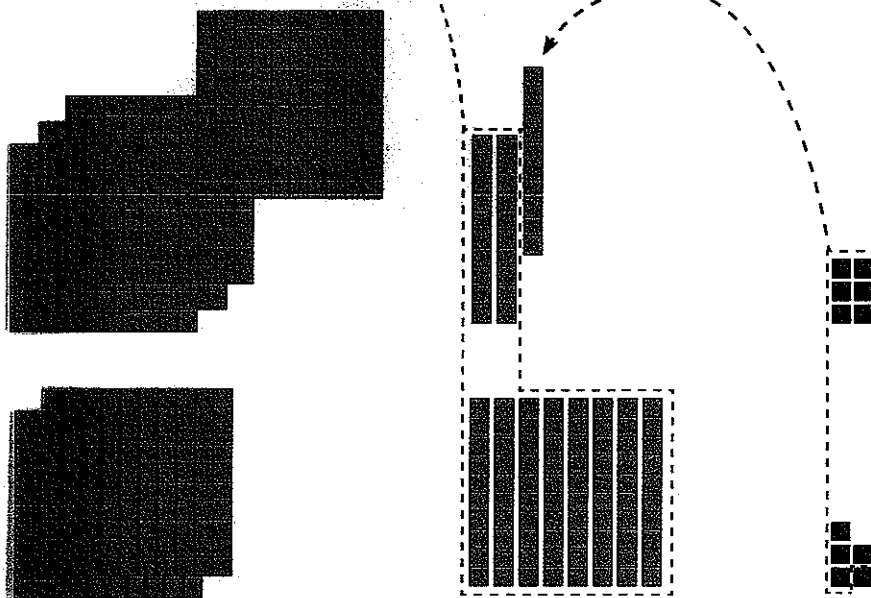
$$\begin{array}{r} 276 \\ 110 \\ + 293 \\ \hline \end{array}$$

4  $325 + 479 + 321$

$$+ \underline{\hspace{2cm}}$$

The model shows how to find the sum of 326 and 285.

**BUILD  
THE  
CONCEPT**



\_\_\_\_\_ hundreds

\_\_\_\_\_ tens

\_\_\_\_\_ ones = \_\_\_\_\_

# TRY IT TOGETHER

Find each sum. Regroup as needed.

5 
$$\begin{array}{r} 887 \\ 207 \\ + 195 \\ \hline \end{array}$$

6 
$$\begin{array}{r} 471 \\ + 757 \\ \hline \end{array}$$

7  $243 + 449 + 111$

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

# WORK ON YOUR OWN

## Add 3-Digit Numbers with Regrouping

### Using Symbols

1. 
$$\begin{array}{r} 452 + 567 + 128 \\ 452 \\ 567 \\ + 128 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 1 \\ 452 \\ 567 \\ + 128 \\ \hline 7 \end{array}$$

3. 
$$\begin{array}{r} 11 \\ 452 \\ 567 \\ + 128 \\ \hline 47 \end{array}$$

$$\begin{array}{r} 11 \\ 452 \\ 567 \\ + 128 \\ \hline 1,147 \end{array}$$

So,  $452 + 567 + 128 = 1,147$ .

### Using Words

Write the problem vertically, line up the digits with the same place value.

Add the digits in the ones column. If the sum has more than one digit, regroup.

Add the digits in the tens column. If the sum has more than one digit, regroup.

Add the digits in the hundreds column.





# Adding Multi-Digit Numbers with Regrouping

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## GET STARTED

1  $38 + 76 + 26$

$$\begin{array}{r} 38 \\ 76 \\ + 26 \\ \hline \end{array}$$

2  $888 + 104$

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

3  $7,826 + 6,383$

$$\begin{array}{r} 7,826 \\ + 6,383 \\ \hline \end{array}$$

4  $2,348,347 + 94,117$

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

Find the sum of 7,326 and 3,173.

Expanded notation of 7,326:  $7,000 + 300 + 20 + 6$

Expanded notation of 3,173:  $3,000 + 100 + 70 + 3$

$7,000 + 3,000 =$  \_\_\_\_\_

$300 + 100 =$  \_\_\_\_\_

$20 + 70 =$  \_\_\_\_\_

$6 + 3 =$  \_\_\_\_\_

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

**BUILD  
THE  
CONCEPT**

# TRY IT TOGETHER

Find each sum. Regroup as needed.

5  $112,771 + 81,668$

$$\begin{array}{r} 112,771 \\ + 81,668 \\ \hline \end{array}$$

6  $4,413,510 + 378,746$

$$\begin{array}{r} 4,413,510 \\ + 378,746 \\ \hline \end{array}$$

7  $14,911 + 959$

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

8  $91,717 + 868 + 8,306$

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

# WORK ON YOUR OWN

## Add Multi-Digit Numbers with Regrouping

### Using Symbols

1.  $74,345 + 37,209$

$$\begin{array}{r} 74,345 \\ + 37,209 \\ \hline \end{array}$$

2.  $74,345$

$$\begin{array}{r} 74,345 \\ + 37,209 \\ \hline 4 \end{array}$$

3.  $74,345$

$$\begin{array}{r} 74,345 \\ + 37,209 \\ \hline 111,554 \end{array}$$

So,  $74,345 + 37,209 = 111,554$ .

### Using Words

Write the problem vertically. Line up the **digits** with the same place value in **columns**.

Add the digits in the ones column. If the sum has more than one digit, regroup.

Continue adding the digits in the next columns, going from right to left. If the sum has more than one digit, regroup.

HOW  
TO



# Estimating Sums

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## GET STARTED

1

$$\begin{array}{r} 327 \\ 526 \\ + 779 \\ \hline \end{array}$$

2

$$\begin{array}{r} 327 \rightarrow \underline{\hspace{2cm}} \\ 526 \rightarrow \underline{\hspace{2cm}} \\ 779 \rightarrow \underline{\hspace{2cm}} \end{array}$$

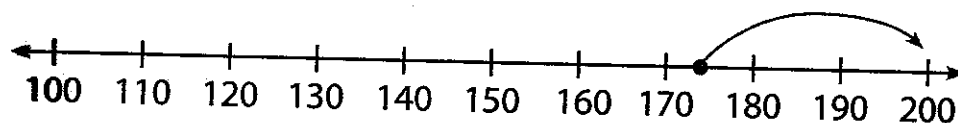
3

$$\begin{array}{r} 327 \rightarrow 300 \\ 526 \rightarrow 500 \\ + 779 \rightarrow + 800 \end{array}$$

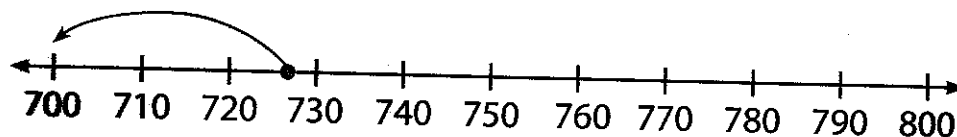
4

$$\begin{array}{r} 562 + 822 + 571 \\ 562 \rightarrow \underline{\hspace{2cm}} \\ 822 \rightarrow \underline{\hspace{2cm}} \\ + 571 \rightarrow + \underline{\hspace{2cm}} \end{array}$$

Estimate the sum of 174 and 726.



174 is closer to \_\_\_\_\_.



726 is closer to \_\_\_\_\_.

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

**BUILD  
 THE  
 CONCEPT**

# TRY IT TOGETHER

Round each number to its greatest place value. Then estimate each sum.

5      28 →  
       193 →  
       + 45 → +

6      3,172 →  
       505 →  
       + 146 → +

7      555 + 921 + 517  
       555 →  
       921 →  
       + 517 → +

8      212 + 333 + 176  
       212 →  
       333 →  
       + 176 → +

# WORK ON YOUR OWN



## Estimate a Sum

### Using Symbols

1. 67 + 784 + 209  
       67 →      70  
       784 →     800  
       + 209 → + 200

### Using Words

Round each number to its greatest place value.

2.      70  
       800  
       + 200  
       1,070

So, the sum of 67, 784, and 209 is about 1,070.

Add the rounded numbers.

# Subtracting 2-Digit Numbers with No Regrouping

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## GET STARTED

1 a.  $3 - 1 =$  \_\_\_\_\_

b.  $9 - 4 =$  \_\_\_\_\_



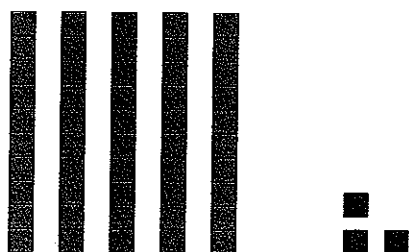
$$\begin{array}{r} 39 \\ - 14 \\ \hline \end{array}$$

\_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ tens \_\_\_\_\_ ones

3

$$\begin{array}{r} 58 - 24 \\ 58 \\ - 24 \\ \hline \end{array}$$

The model shows how to find the difference of 53 and 52.



\_\_\_\_\_ tens \_\_\_\_\_ ones = \_\_\_\_\_

**BUILD  
THE  
CONCEPT**

# TRY IT TOGETHER

Find each difference.

4     38  
    - 18  
          

5     74  
    - 12  
          

6     29 - 26

7     23 - 12

# WORK ON YOUR OWN

HOW  
TO

Subtract 2-Digit Numbers with No Regrouping

Using Symbols

1. 98 - 23

   98  
  - 23  
     

Write the problem vertically. Line up the digits with the same place value.

2. 98

  - 23  
       
   5

Subtract the digits in the ones column.

3. 98

  - 23  
       
  75

Subtract the digits in the tens column.

So, 98 minus 23 is equal to 75.

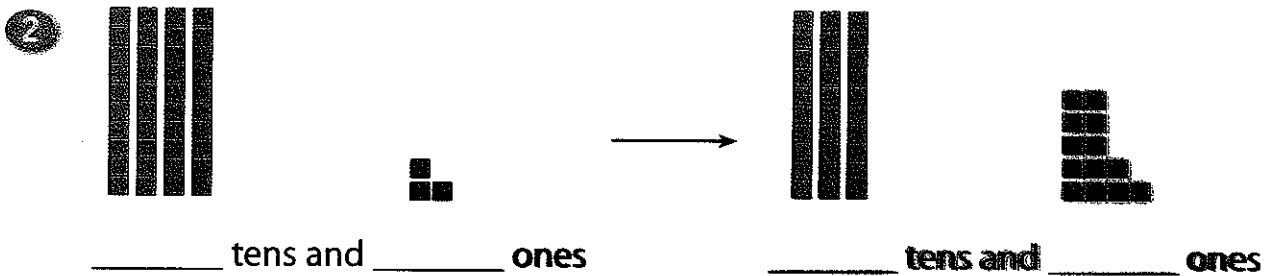
# Subtracting 2-Digit Numbers with Regrouping

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

## GET STARTED

1  $43 - 21$

$$\begin{array}{r} 43 \\ - 21 \\ \hline \end{array}$$



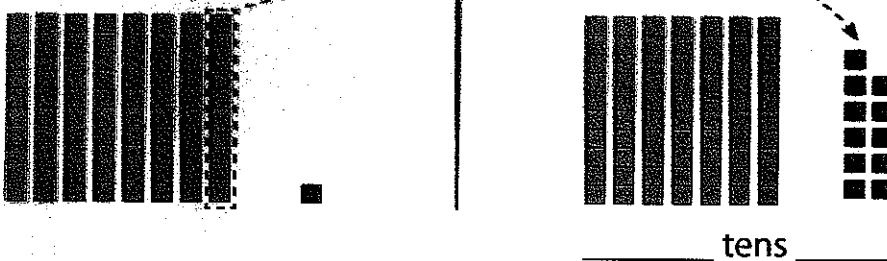
3  $43 - 19$

$$\begin{array}{r} 43 \\ - 19 \\ \hline \end{array}$$

4  $71 - 54$

$$\begin{array}{r} 71 \\ - 54 \\ \hline \end{array}$$

The model shows how to find the difference of 81 and 15.



**BUILD  
THE  
CONCEPT**

## WORK TOGETHER

Find each difference. Regroup as needed.

$$\begin{array}{r} 5 \\ 67 \\ - 39 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ 93 \\ - 5 \\ \hline \end{array}$$

$$7 \quad 81 - 78$$

—

$$8 \quad 55 - 26$$

—

## WORK ON YOUR OWN

### Subtract 2-Digit Numbers with Regrouping

#### Using Symbols

1.  $90 - 18$

$$\begin{array}{r} 90 \\ - 18 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 8 \text{ } 10 \\ 90 \\ - 18 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 3 \\ 8 \text{ } 10 \\ 90 \\ - 18 \\ \hline 72 \end{array}$$

So, 90 minus 18 is equal to 72.

#### Using Words

Write the **problem** vertically. Line up the digits that **have** the same place value.

If the ones digit of the top number is less than the ones digit of the bottom number, regroup. Then subtract the digits in the ones column.

Subtract the digits in the tens column.

HOW  
TO

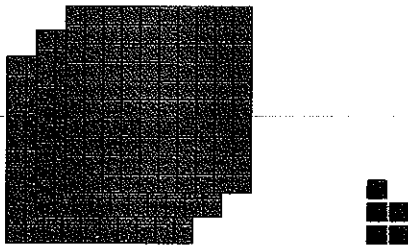


# Subtracting 3-Digit Numbers with 1 Regrouping

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

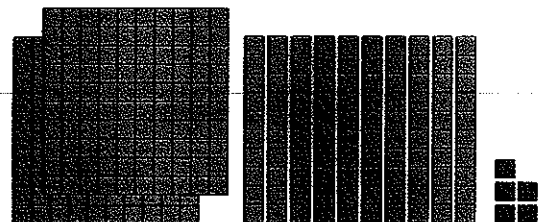
## GET STARTED

1 a.



\_\_\_ hundreds \_\_\_ tens \_\_\_ ones

b.



\_\_\_ hundreds \_\_\_ tens \_\_\_ ones

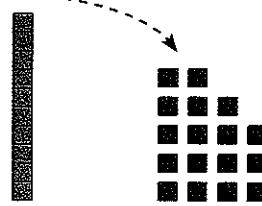
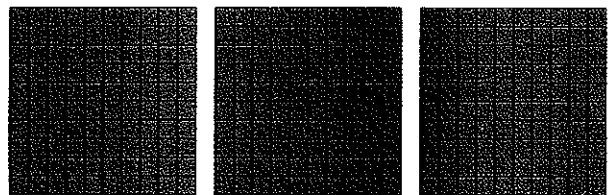
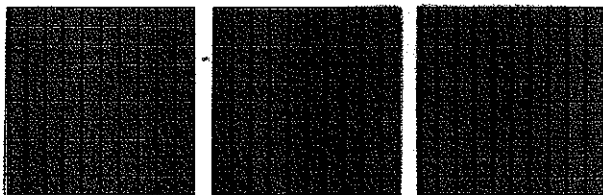
2  $305 - 104$       305  
                    - 104

3  $305 - 262$       305  
                    - 262

4  $824 - 618$       824  
                    - 618

The model shows how to find the difference of 327 and 108.

**BUILD THE CONCEPT**



\_\_\_ hundreds \_\_\_ tens \_\_\_ ones = \_\_\_

## TRY IT TOGETHER

Find each difference. Regroup as needed.

$$\begin{array}{r} 657 \\ - 549 \\ \hline \end{array}$$

$$\begin{array}{r} 477 \\ - 85 \\ \hline \end{array}$$

$$\begin{array}{r} 419 \\ - 346 \\ \hline \end{array}$$

$$\begin{array}{r} 773 \\ - 56 \\ \hline \end{array}$$

## WORK ON YOUR OWN

### Subtract 3-Digit Numbers with 1 Regrouping

HOW  
TO

#### Using Symbols

$$1. \quad 761 - 538$$

$$\begin{array}{r} 761 \\ - 538 \\ \hline \end{array}$$

#### Using Words

Write the problem vertically. Line up digits that have the same place value.

$$\begin{array}{r} 2. \quad \begin{array}{r} 511 \\ 761 \\ - 538 \\ \hline \end{array} \\ 3 \end{array}$$

If the ones digit of the top number is less than the ones digit of the bottom number, regroup. Subtract the digits in the ones column.

$$\begin{array}{r} 3. \quad \begin{array}{r} 511 \\ 761 \\ - 538 \\ \hline \end{array} \\ 23 \end{array}$$

If the tens digit of the top number is less than the tens digit of the bottom number, regroup. Subtract the digits in the tens column.

$$\begin{array}{r} 4. \quad \begin{array}{r} 511 \\ 761 \\ - 538 \\ \hline \end{array} \\ 223 \end{array}$$

Subtract the digits in the hundreds column.