

## Add Two-Digit Numbers

Name: \_\_\_\_\_

**Prerequisite:** Add Tens and Add Ones

**Study the example showing how to add two-digit numbers. Then solve Problems 1–8.**

**Example**

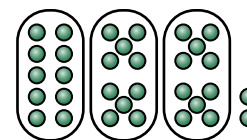
Sid has 32 marbles. Nan has 16 marbles.  
How many do they have altogether?

Write 32 and 16 as tens and ones:  
3 tens 2 ones and 1 ten 6 ones.

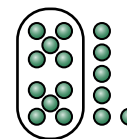
Add the tens first. Then add the ones.

$$\begin{array}{r} 3 \text{ tens} \quad 2 \text{ ones} \\ + 1 \text{ ten} \quad 6 \text{ ones} \\ \hline 4 \text{ tens} \quad 8 \text{ ones} = \mathbf{48} \end{array}$$

32 marbles



16 marbles



48 marbles

Mark has 43 shells. Then he finds 25 more shells.

- 1 There are \_\_\_\_\_ tens and \_\_\_\_\_ ones in 43.
- 2 There are \_\_\_\_\_ tens and \_\_\_\_\_ ones in 25.
- 3 How many shells does Mark have now?

**Show your work.**

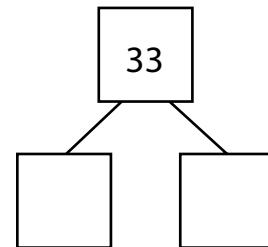
Answer: Mark has \_\_\_\_\_ shells.

## Solve.

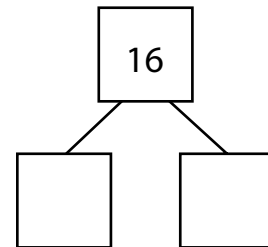
Leah has 33 heart stickers. She has 16 star stickers.



- 4 Circle groups of ten heart stickers.  
There are \_\_\_\_\_ tens and \_\_\_\_\_ ones  
in 33.
- 5 Write the tens and the ones for the heart  
stickers in the number bond.



- 6 Circle a group of ten star stickers.  
There are \_\_\_\_\_ ten and \_\_\_\_\_ ones  
in 16.
- 7 Write the tens and the ones for the star  
stickers in the number bond.



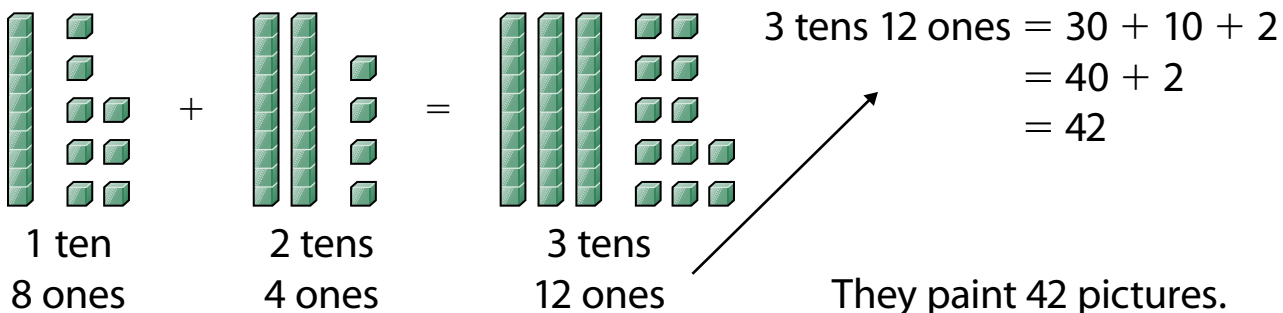
- 8 How many stickers does Leah have in all?  
**Show your work.**

*Answer:* Leah has \_\_\_\_\_ stickers in all.

## Use Base-Ten Blocks to Add Two-Digit Numbers

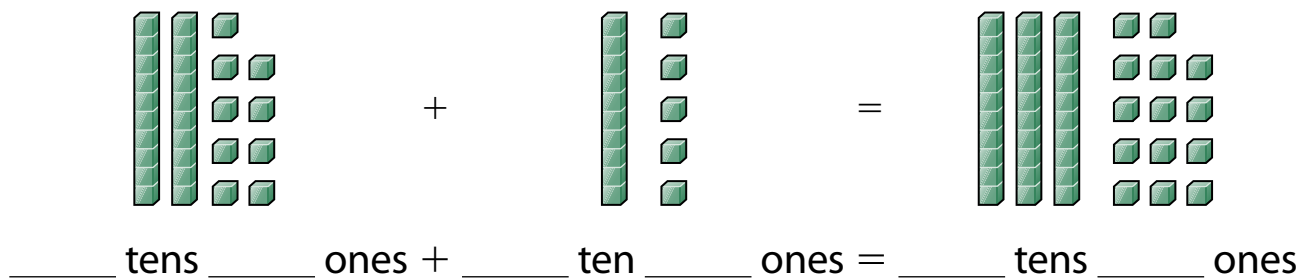
Study the example showing how to use base-ten blocks to add two-digit numbers. Then solve Problems 1–7.

## Example

Find  $18 + 24$ .

Max has 29 rocks. Then he finds 15 more rocks.

- 1 Write the tens and ones. Then add the tens and ones.



- 2 How many tens and ones are in 14?

$14 =$  \_\_\_\_\_ ten and \_\_\_\_\_ ones, or  $10 +$  \_\_\_\_\_

- 3 Add the tens. Then add the ones.

$30 + 10 + 4 =$  \_\_\_\_\_ + \_\_\_\_\_, or \_\_\_\_\_

Max has \_\_\_\_\_ rocks.

## Solve.

Ms. Kottler has 27 black pens and 14 blue pens.

- 4 Write the tens and ones.

$$27 = 20 + \underline{\quad}$$

$$14 = \underline{\quad} + \underline{\quad}$$

- 5 Add the tens then add the ones from Problem 4. How many pens does Ms. Kottler have in all?

**Show your work.**

Answer:          pens

There are 36 girls with red shirts. There are 19 boys with red shirts. There are 16 girls with blue shirts.

- 6 How many girls are there?

**Show your work.**

Answer:          girls

- 7 How many children have red shirts?

**Show your work.**

Answer:          red shirts

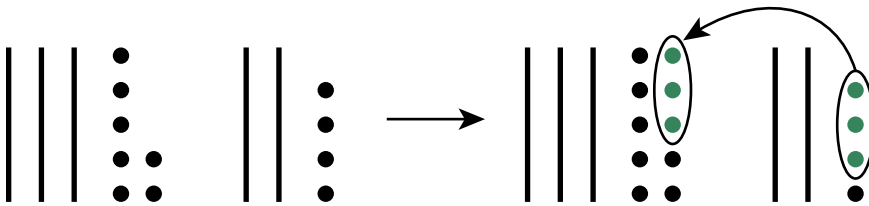
## Use Quick Drawings or Open Number Lines to Add Two-Digit Numbers

**Study the example showing how to use quick drawings to add two-digit numbers. Then solve Problems 1–6.**

### Example

What is  $37 + 24$ ?

$37 + 24$  is the same as  $40 + 21$ .

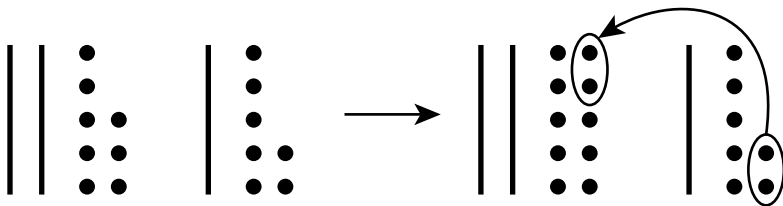


$$40 + 21 = 61$$

$$\text{So, } 37 + 24 = 61$$

Kim picks 28 apples. Nate picks 17 apples.

- 1** Look at the quick drawing. Then fill in the blanks.



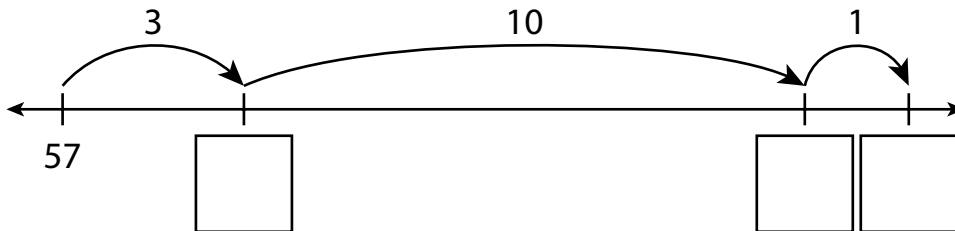
$$28 + 17 \rightarrow \underline{\quad} + \underline{\quad}$$

- 2** How many apples do Kim and Nate pick in all? \_\_\_\_\_

## Solve.

3  $57 + 14$  is the same as \_\_\_\_\_ + \_\_\_\_\_.

4 Fill in the missing numbers in the open number line. Then solve  $57 + 14$ .



$$57 + 14 = \underline{\hspace{2cm}}$$

5 Mia has 49 red beads and 36 yellow beads. How many beads does Mia have in all?

**Show your work.**

Answer: \_\_\_\_\_

6 Write three different number sentences with a sum of 51.

$$22 + 29 = 51$$

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## Add Two-Digit Numbers

## Solve the problems.

- 1 Diego read 48 pages of a book one day. The next day he read 23 pages. How many pages did Diego read in all? Circle the correct answer.

A 61                      C 71  
B 62                      D 75

You can add the tens and add the ones.



- 2 Which addition problems could be solved by adding  $40 + 15$ ? Circle all of the correct answers.

A  $39 + 16$                       C  $37 + 18$   
B  $38 + 13$                       D  $36 + 17$

What do you add to one of the addends to get 40?



- 3 Tell if the number sentence can be used to solve  $27 + 56$ . Circle Yes or No for each number sentence.

a.  $20 + 50 + 10 + 6 = 86$     Yes    No  
b.  $20 + 7 + 50 + 6 = 83$     Yes    No  
c.  $30 + 56 = 86$                       Yes    No  
d.  $20 + 50 + 13 = 83$               Yes    No

There are many ways to add two-digit numbers.



**Solve.**

**4** A fruit salad has 37 green grapes and 45 red grapes. How many grapes are in the fruit salad?

**A** 72

**C** 82

**B** 81

**D** 712

Tim chose **A**. This is wrong. How did Tim get his answer?

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How many tens are you adding?



**5** Dan has 29 books. Kayla has 3 more books than Dan. How many books do Dan and Kayla have altogether?

**Show your work.**

How many books does Kayla have?



Answer: \_\_\_\_\_