

1

Purposeful Design

MATHEMATICS

THIRD EDITION

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Chapter 5

LM

DM

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LM 5.1A Chapter 5 Parent Letter



Dear Parents,

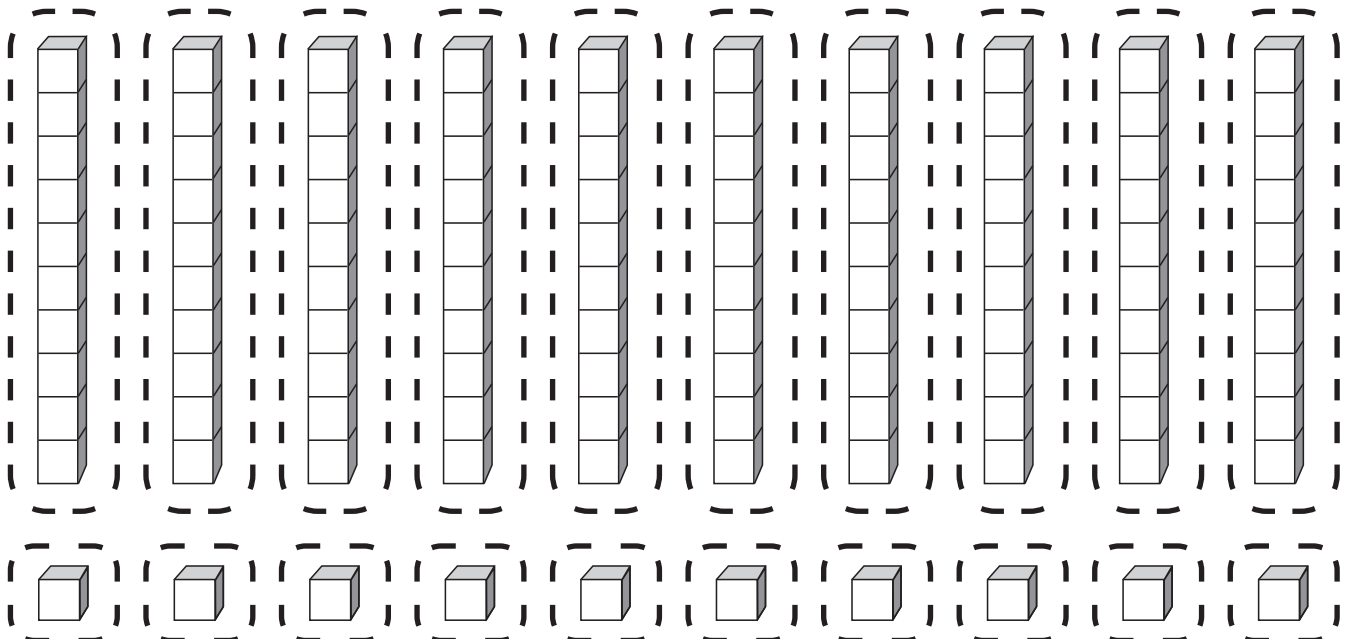
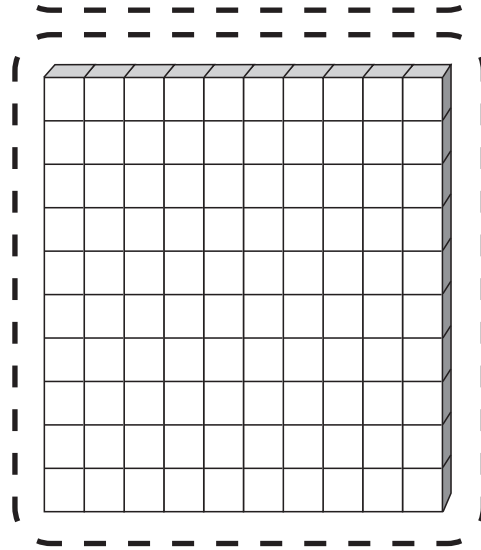
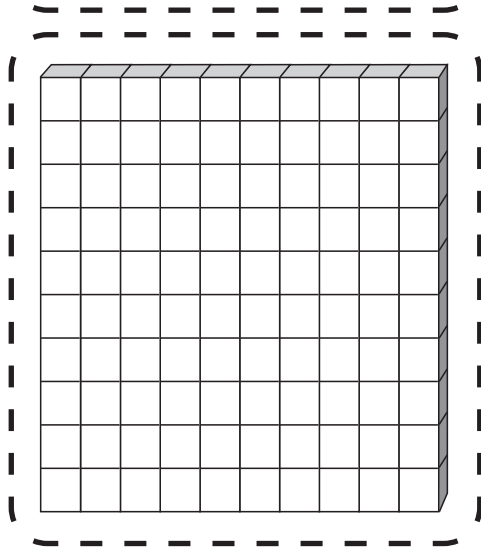
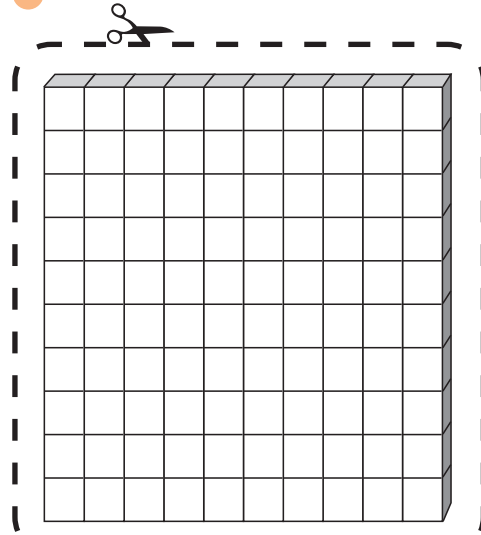
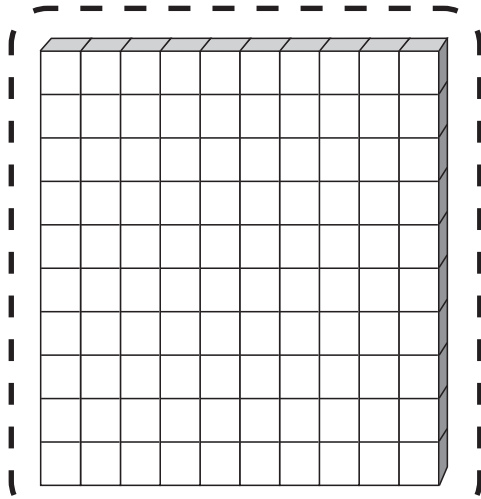
During the previous months of school, your first grader has been busy learning new math concepts and acquiring new skills. Your child has practiced sorting, patterning, counting, addition, subtraction, time, money, and problem solving. Work with these skills and concepts will continue throughout the first-grade year.

In this chapter, your child will be introduced to the concept of place value. The students will work at the concrete level, using manipulatives to learn about the ones, tens, and hundreds place in numbers. Your child will learn that the number 10 has 1 group of ten and 0 ones; 53 has 5 tens and 3 ones; and 125 has 1 hundred, 2 tens, and 5 ones. Help your first grader master the concept of place value by having him or her count groups of small objects and then telling you how many ones, tens, and hundreds there are.

As the year progresses, adding and subtracting will become more than just memorizing a sequence of numbers. A variety of learning experiences will give your child practice with the concepts of adding and subtracting two-digit numbers. Look for ways to have your child practice addition and subtraction with two-digit numbers at home. Enjoy watching your child learn strategies for solving addition and subtraction word problems.



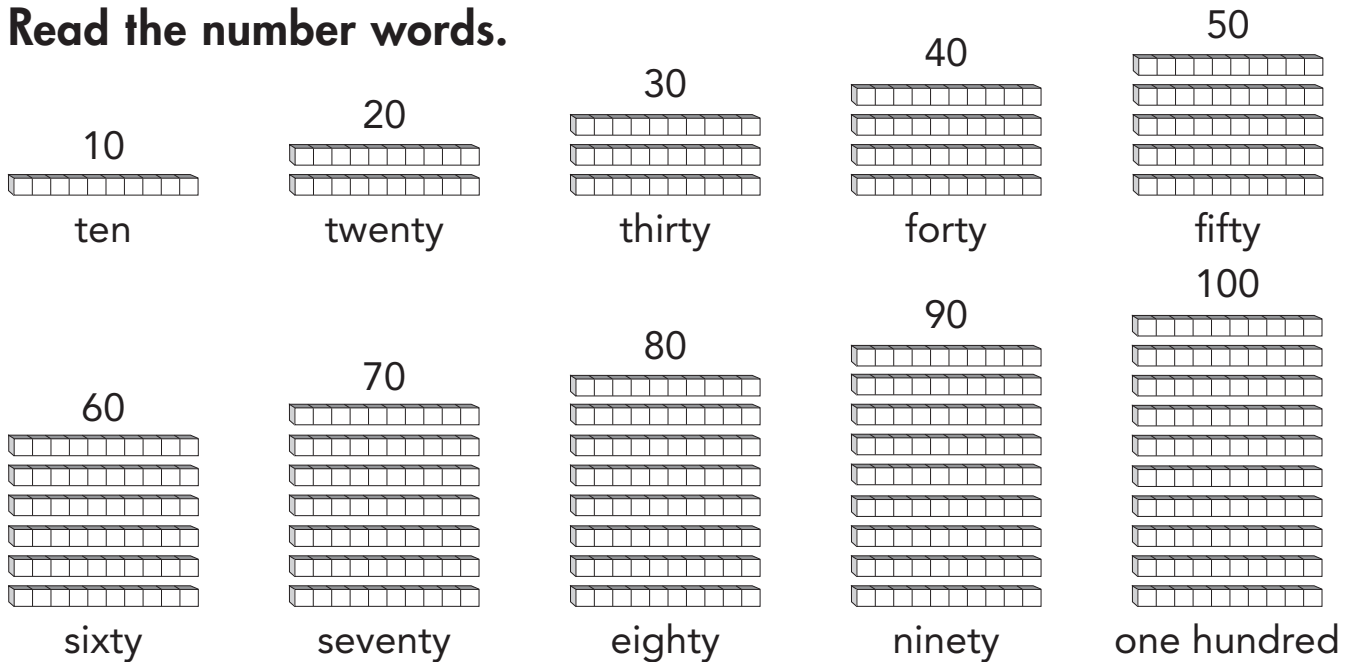
LM 5.1B Base 10 Block Patterns



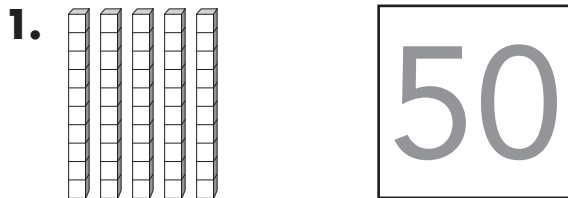
Name _____

LM 5.2A Number Words for Tens

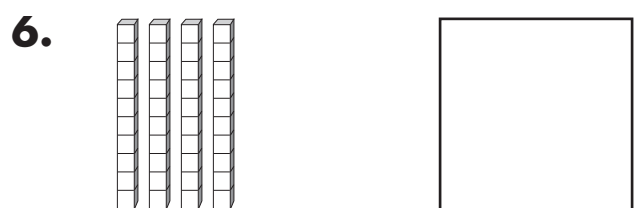
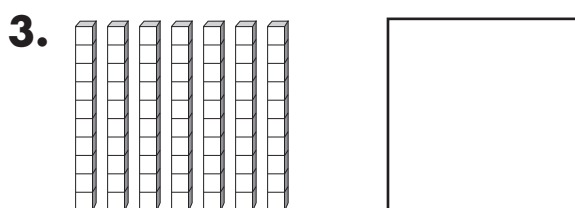
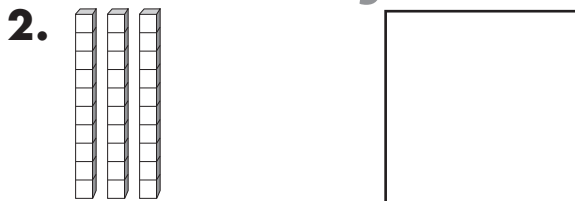
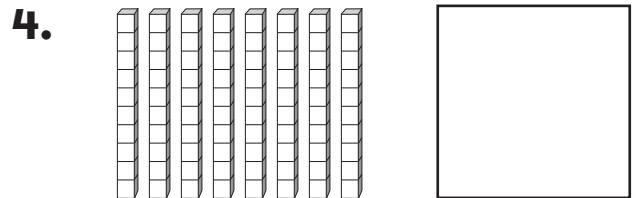
Read the number words.



Count by 10s. Write the number in the box. Then, write the number word.



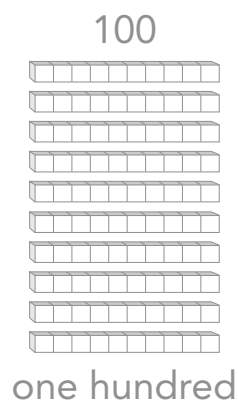
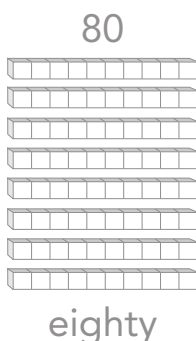
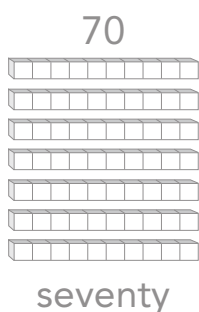
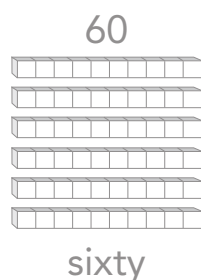
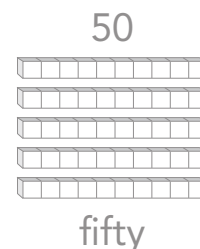
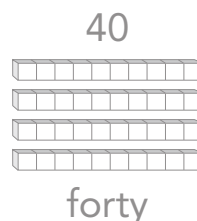
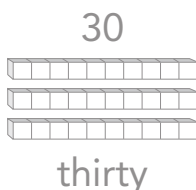
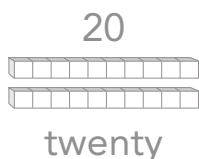
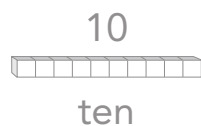
fifty



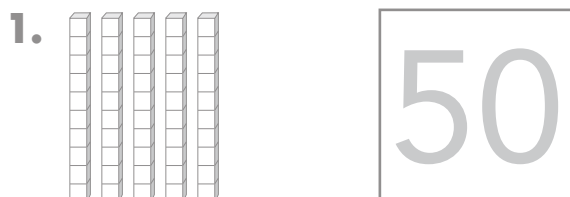


LM 5.2A Number Words for Tens

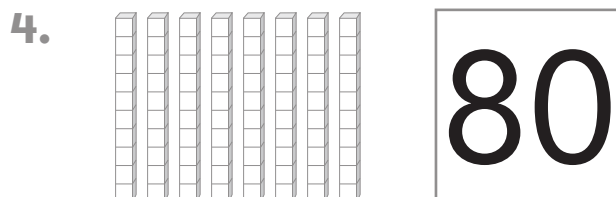
Read the number words.



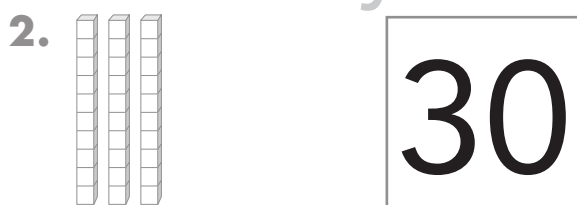
Count by 10s. Write the number in the box. Then, write the number word.



fifty



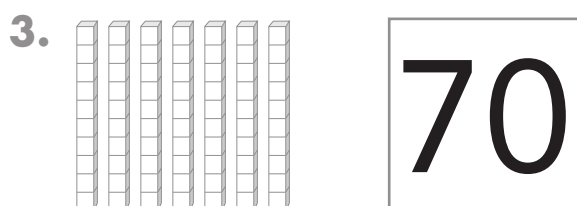
eighty



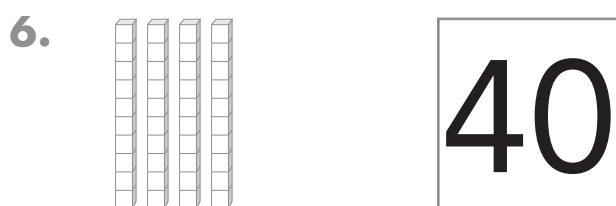
thirty



twenty



seventy



forty

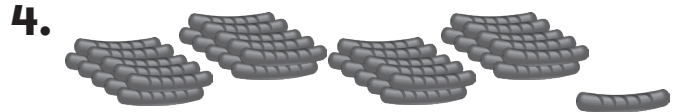
Name _____

LM 5.2B Number Names for Tens and Ones

Count. Write the number of tens and ones. Then, write the total.



_____ tens _____ ones = _____



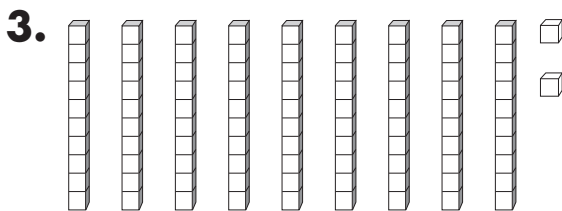
_____ tens _____ ones = _____



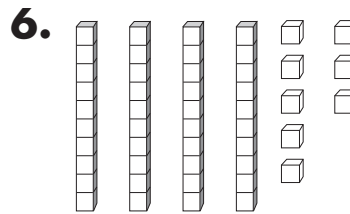
_____ tens _____ ones = _____



_____ tens _____ ones = _____



_____ tens _____ ones = _____



_____ tens _____ ones = _____

Draw a for each ten and a for each one. Write the number.

7.

--	--

2 tens 3 ones

=

8.

--	--

1 ten 6 ones

=

9.

--	--

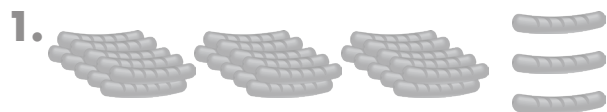
4 tens 7 ones

=

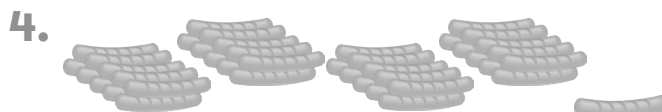


LM 5.2B Number Names for Tens and Ones

Count. Write the number of tens and ones. Then, write the total.



$$\underline{3} \text{ tens } \underline{3} \text{ ones} = \underline{33}$$



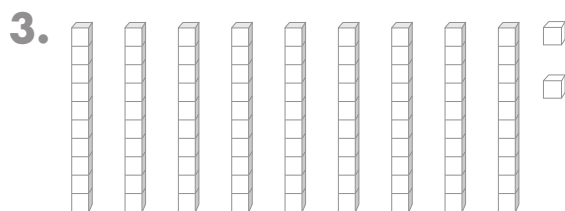
$$\underline{4} \text{ tens } \underline{1} \text{ ones} = \underline{41}$$



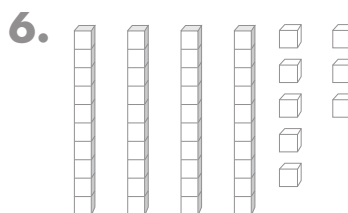
$$\underline{6} \text{ tens } \underline{7} \text{ ones} = \underline{67}$$



$$\underline{1} \text{ tens } \underline{5} \text{ ones} = \underline{15}$$



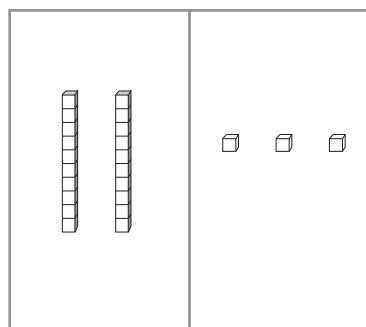
$$\underline{9} \text{ tens } \underline{2} \text{ ones} = \underline{92}$$



$$\underline{4} \text{ tens } \underline{8} \text{ ones} = \underline{48}$$

Draw a for each ten and a for each one. Write the number.

7.

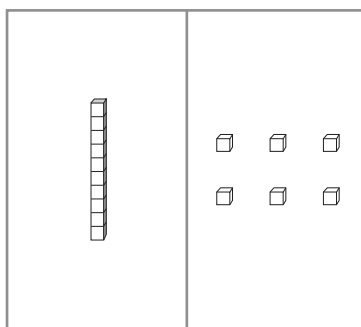


2 tens 3 ones

=

23

8.

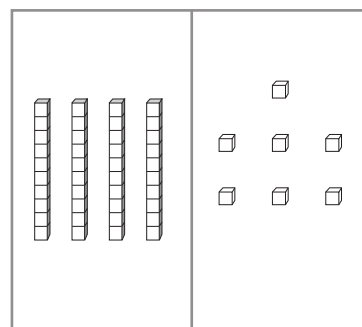


1 ten 6 ones

=

16

9.



4 tens 7 ones

=

47



LM 5.3A Workmat: Tens and Ones

ones 	
tens 	

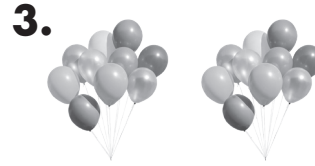
Name _____

LM 5.4A Zero in the Ones Place

Count. Write the number of tens and ones. Then, write the total.



____ tens ____ ones = ____



____ tens ____ ones = ____

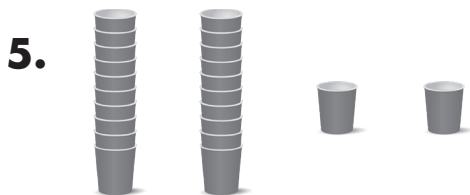


____ tens ____ ones = ____



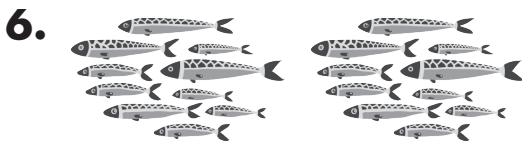
____ tens ____ ones = ____

Match the picture with the correct number.



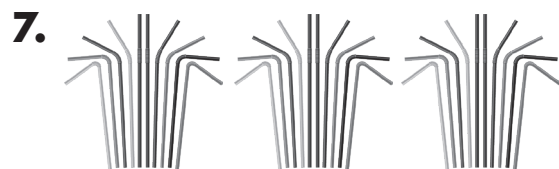
•

• 20



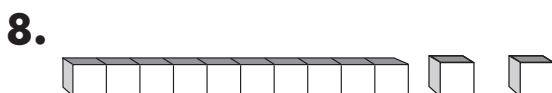
•

• 12



•

• 30



•

• 22



LM 5.4A Zero in the Ones Place

Count. Write the number of tens and ones. Then, write the total.

1.



$$\underline{2} \text{ tens } \underline{4} \text{ ones} = \underline{24}$$

3.



$$\underline{2} \text{ tens } \underline{0} \text{ ones} = \underline{20}$$

2.



$$\underline{5} \text{ tens } \underline{0} \text{ ones} = \underline{50}$$

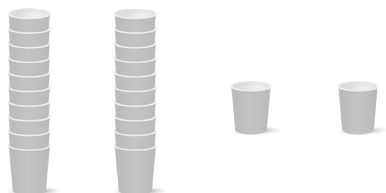
4.



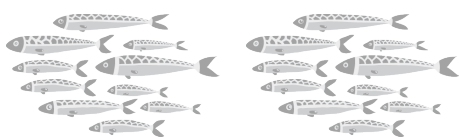
$$\underline{3} \text{ tens } \underline{5} \text{ ones} = \underline{35}$$

Match the picture with the correct number.

5.



6.



7.



8.



20

12

30

22

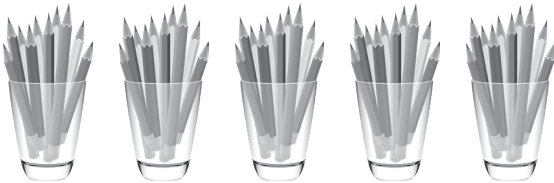
Name _____

LM 5.5A Tens and Ones

Circle the number of pencils.

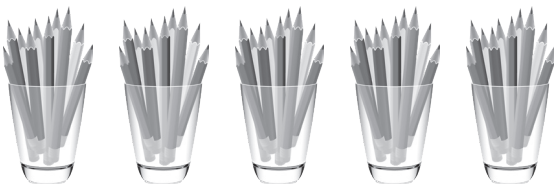
1.

34



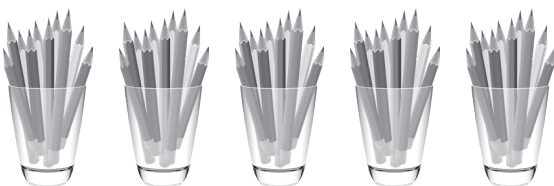
2.

28



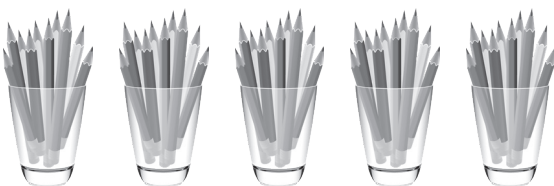
3.

17



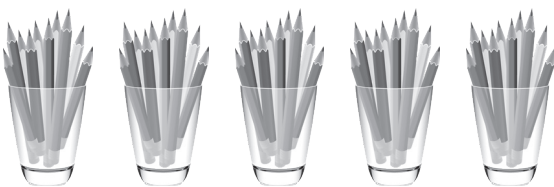
4.

43



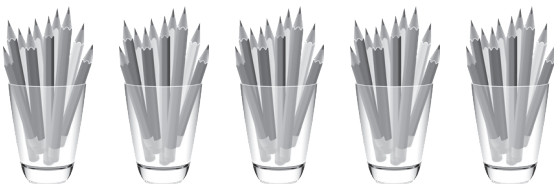
5.

53



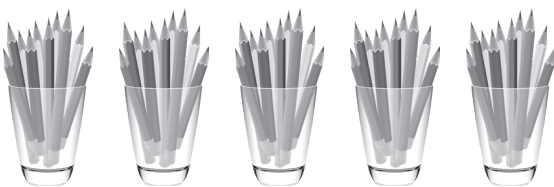
6.

7



7.

46

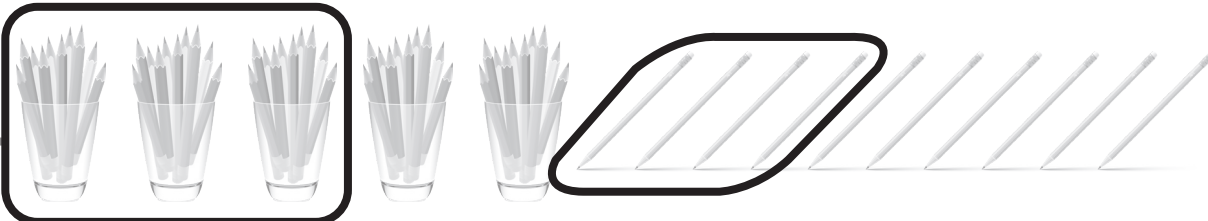




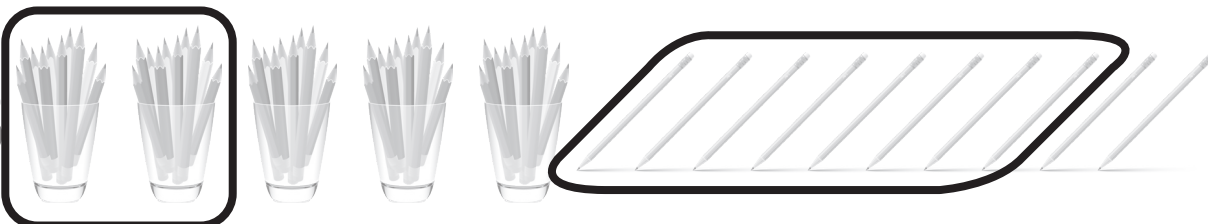
LM 5.5A Tens and Ones

Circle the number of pencils.

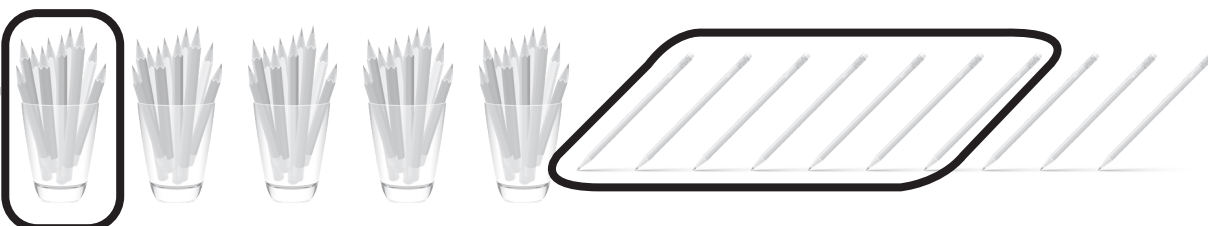
1. 34



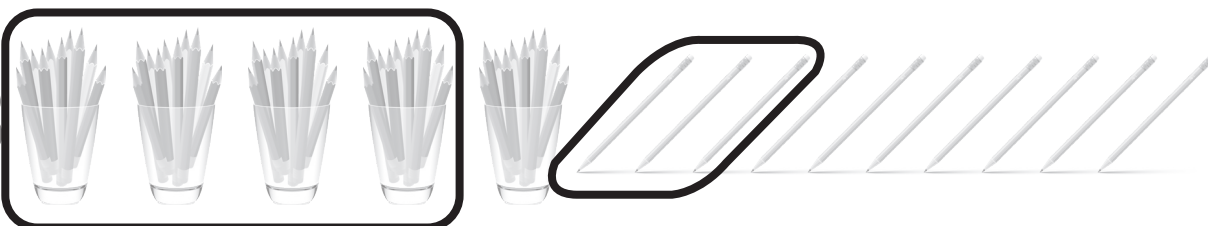
2. 28



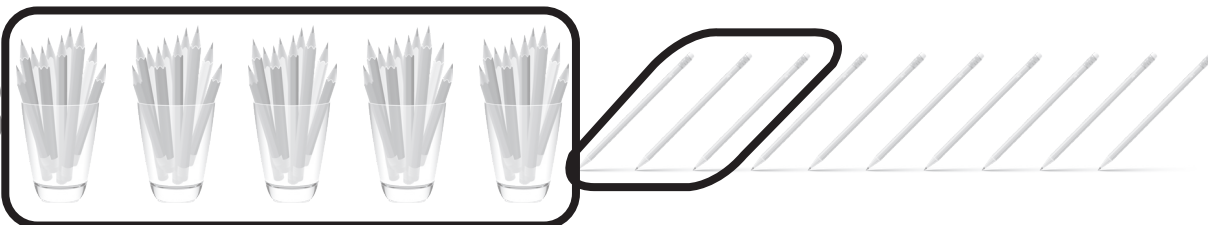
3. 17



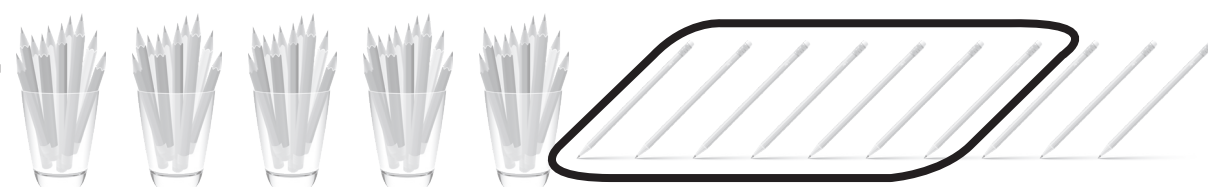
4. 43



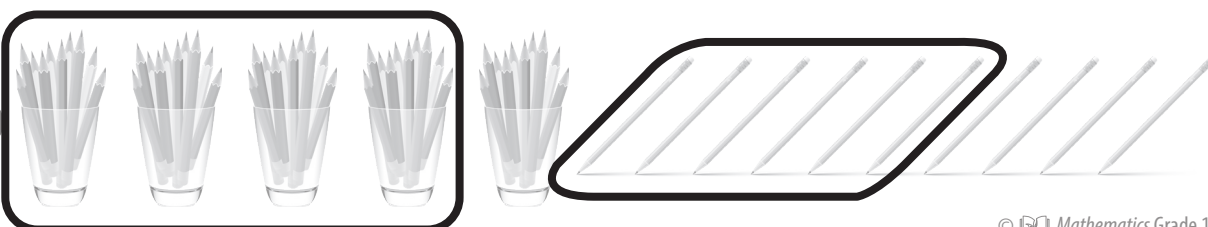
5. 53



6. 7



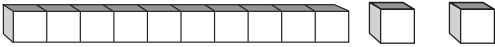
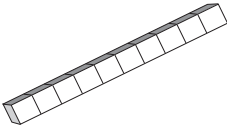
7. 46





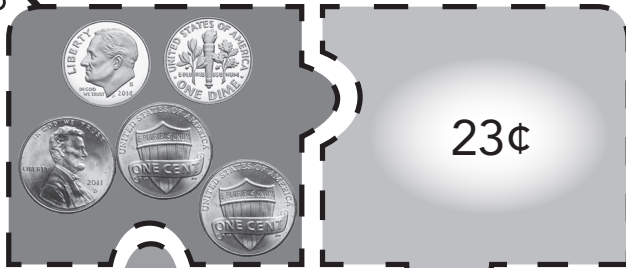
Name _____

LM 5.5B Picturing Place Value

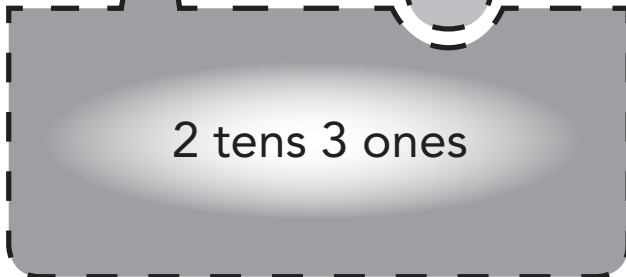
Roll. 	Build with blocks. Draw a picture.		Write.	
			tens	ones
1. 13			1	3
2.				
3.				
4.				
5.				
6.				
7.				



LM 5.6A Puzzle: Place Value with Coins



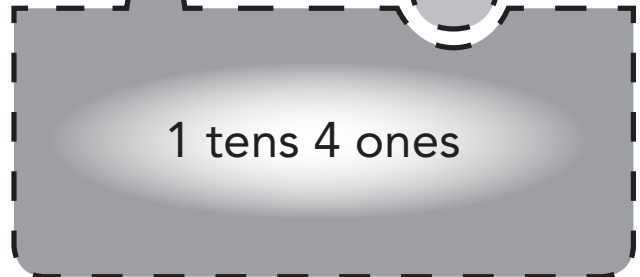
23¢



2 tens 3 ones



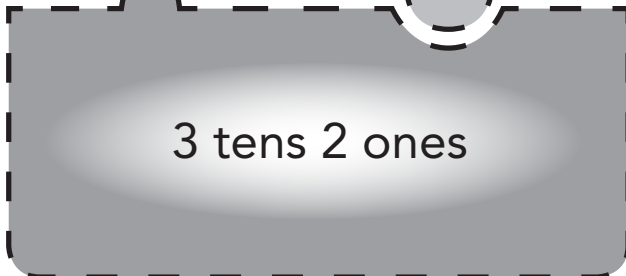
14¢



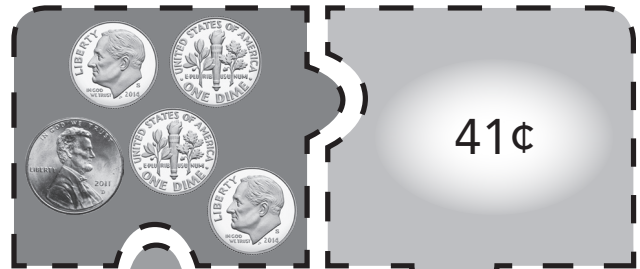
1 tens 4 ones



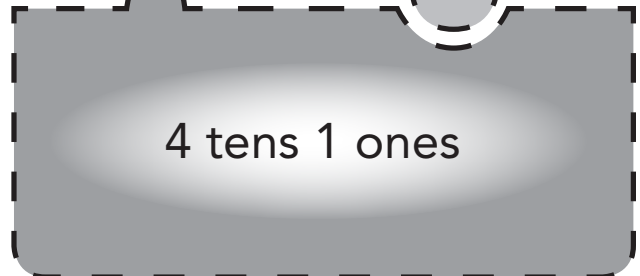
32¢



3 tens 2 ones



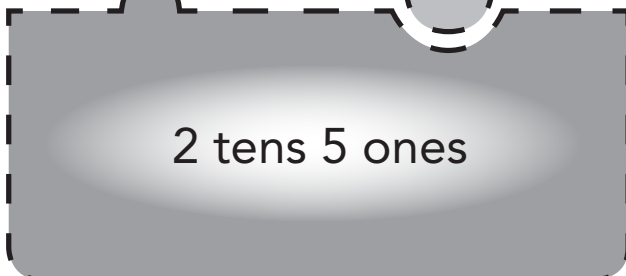
41¢



4 tens 1 ones



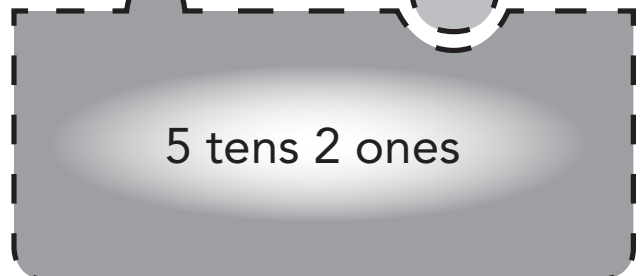
25¢



2 tens 5 ones



52¢



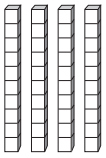
5 tens 2 ones

Name _____

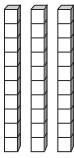
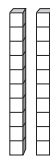
LM 5.7A Two-Digit Addition

Count the tens and ones. Write the problem. Add.

1.

		
		
+		

2.

		
		
+		

Add.

3.

tens	ones
3	6
+	1
	3

6.

tens	ones
5	4
+	2
	0

9.

37
+
31

4.

tens	ones
6	5
+	2
	2

7.

tens	ones
4	7
+	1
	1

10.

24
+
12

5.

tens	ones
1	5
+	1
	1

8.

tens	ones
5	3
+	1
	3

11.

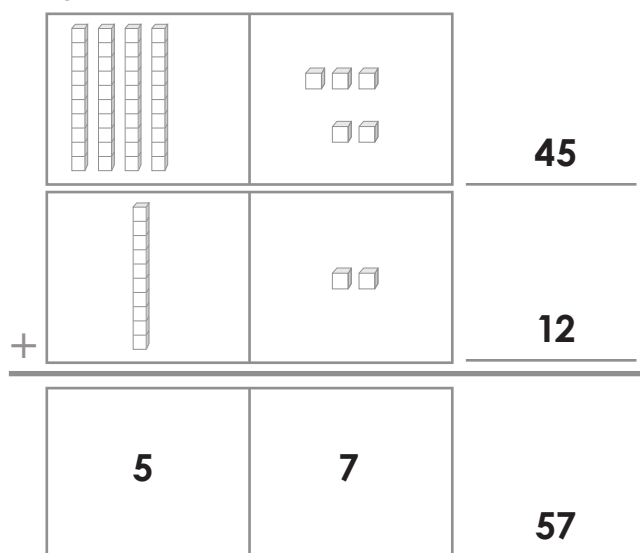
44
+
22



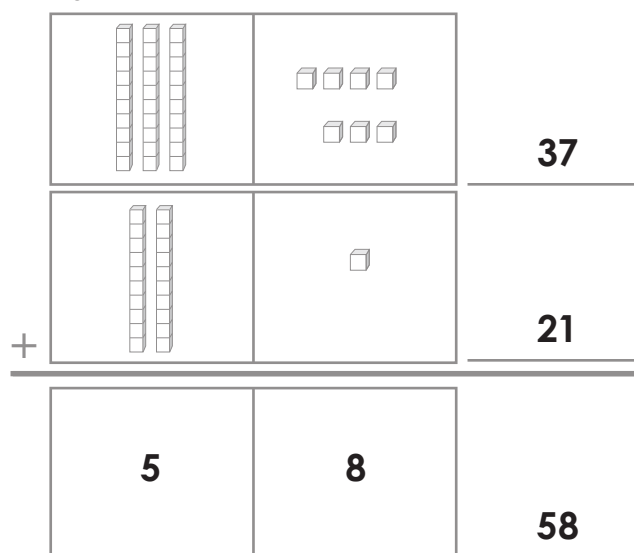
LM 5.7A Two-Digit Addition

Count the tens and ones. Write the problem. Add.

1.

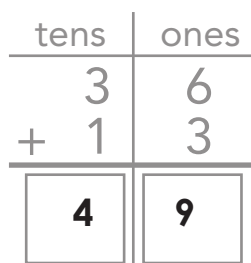


2.

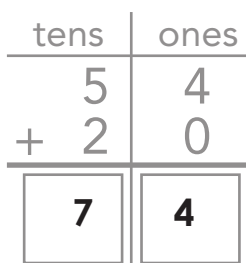


Add.

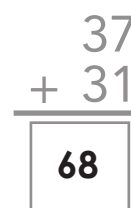
3.



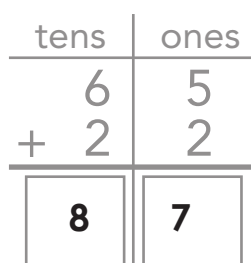
6.



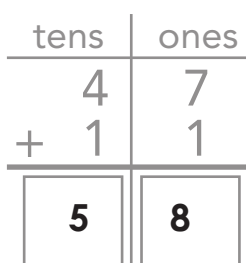
9.



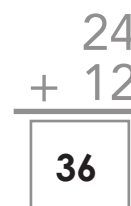
4.



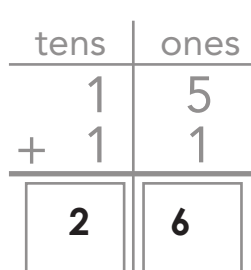
7.



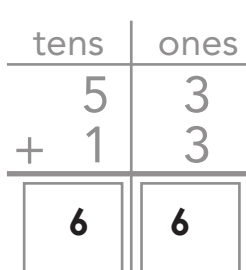
10.



5.



8.



11.

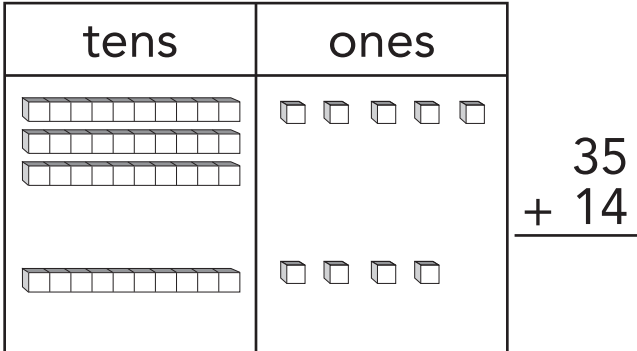


Name _____

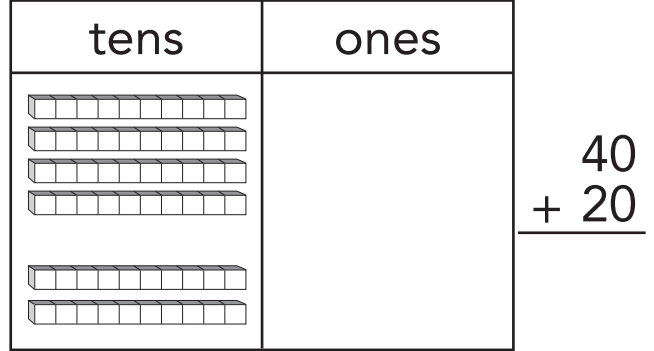
LM 5.7B Two-Digit Addition

Count the tens and ones. Solve the problems.

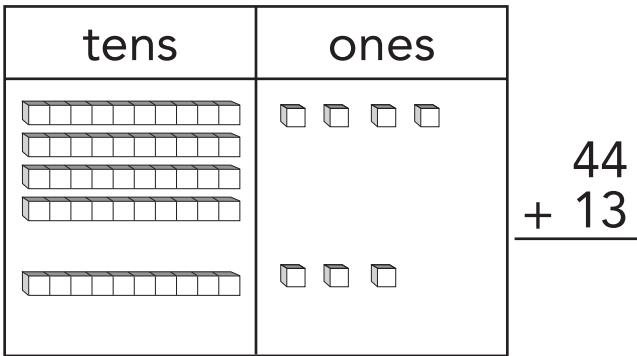
12.



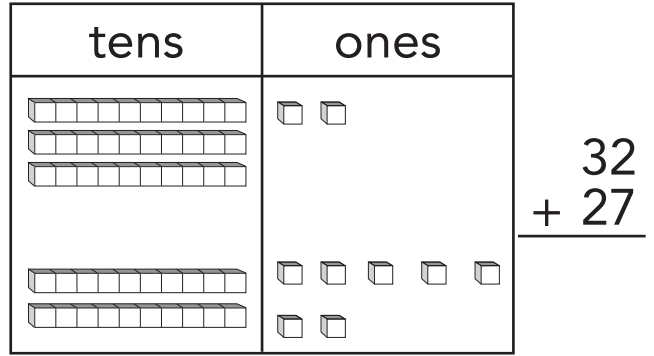
16.



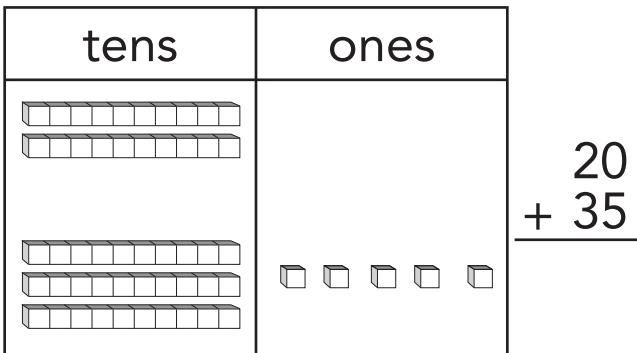
13.



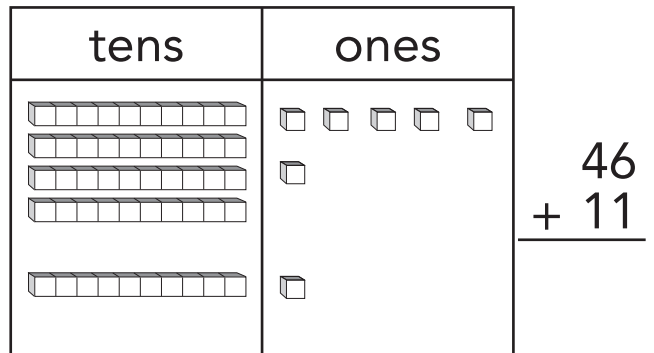
17.



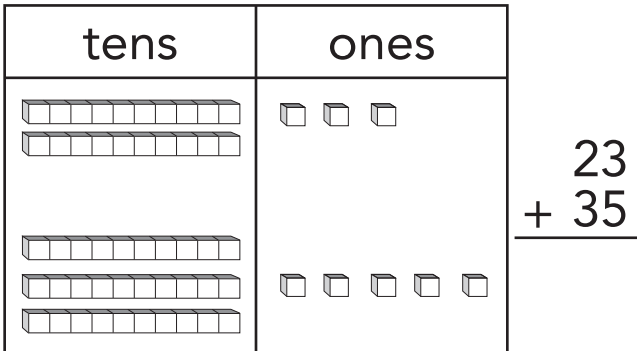
14.



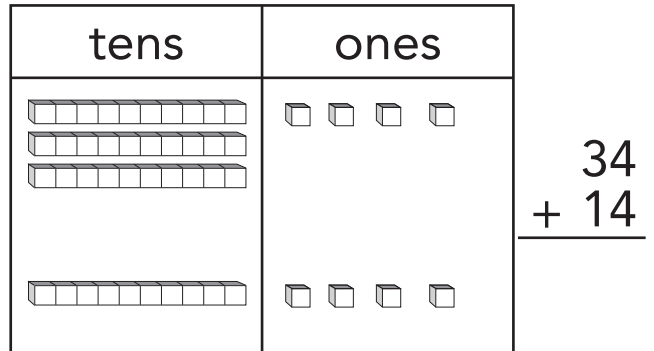
18.



15.



19.





LM 5.7B Two-Digit Addition

Count the tens and ones. Solve the problems.

12.

tens	ones

$$\begin{array}{r} 35 \\ + 14 \\ \hline 49 \end{array}$$

16.

tens	ones

$$\begin{array}{r} 40 \\ + 20 \\ \hline 60 \end{array}$$

13.

tens	ones

$$\begin{array}{r} 44 \\ + 13 \\ \hline 57 \end{array}$$

17.

tens	ones

$$\begin{array}{r} 32 \\ + 27 \\ \hline 59 \end{array}$$

14.

tens	ones

$$\begin{array}{r} 20 \\ + 35 \\ \hline 55 \end{array}$$

18.

tens	ones

$$\begin{array}{r} 46 \\ + 11 \\ \hline 57 \end{array}$$

15.

tens	ones

$$\begin{array}{r} 23 \\ + 35 \\ \hline 58 \end{array}$$

19.

tens	ones

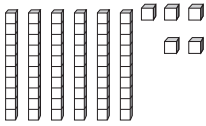
$$\begin{array}{r} 34 \\ + 14 \\ \hline 48 \end{array}$$

Name _____

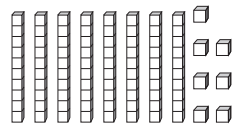
LM 5.8A Two-Digit Subtraction

Mark off to subtract.

1. 6 tens 5 ones
– 4 tens 3 ones



2. 8 tens 7 ones
– 5 tens 4 ones



Subtract.

3.

tens	ones
5	9
– 3	5

6.

tens	ones
7	2
– 4	0

9.

tens	ones
3	7
– 1	6

4.

tens	ones
4	5
– 2	3

7.

tens	ones
2	8
– 1	7

10.

tens	ones
9	3
– 5	0

5.

tens	ones
6	4
– 5	1

8.

tens	ones
8	7
– 4	6

11.

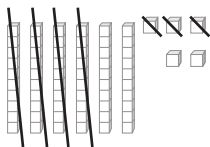
tens	ones
7	6
– 5	4



LM 5.8A Two-Digit Subtraction

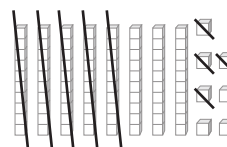
Mark off to subtract.

$$\begin{array}{r} 1. \text{ 6 tens } 5 \text{ ones} \\ - 4 \text{ tens } 3 \text{ ones} \end{array}$$



2 tens 2 ones

$$\begin{array}{r} 2. \text{ 8 tens } 7 \text{ ones} \\ - 5 \text{ tens } 4 \text{ ones} \end{array}$$



3 tens 3 ones

Subtract.

$$\begin{array}{r|l} \text{3.} & \begin{array}{r} \text{tens} \quad \text{ones} \\ 5 \quad 9 \\ - 3 \quad 5 \\ \hline \boxed{2} \quad \boxed{4} \end{array} \end{array}$$

$$\begin{array}{r|l} \text{6.} & \begin{array}{r} \text{tens} \quad \text{ones} \\ 7 \quad 2 \\ - 4 \quad 0 \\ \hline \boxed{3} \quad \boxed{2} \end{array} \end{array}$$

$$\begin{array}{r|l} \text{9.} & \begin{array}{r} \text{tens} \quad \text{ones} \\ 3 \quad 7 \\ - 1 \quad 6 \\ \hline \boxed{2} \quad \boxed{1} \end{array} \end{array}$$

$$\begin{array}{r|l} \text{4.} & \begin{array}{r} \text{tens} \quad \text{ones} \\ 4 \quad 5 \\ - 2 \quad 3 \\ \hline \boxed{2} \quad \boxed{2} \end{array} \end{array}$$

$$\begin{array}{r|l} \text{7.} & \begin{array}{r} \text{tens} \quad \text{ones} \\ 2 \quad 8 \\ - 1 \quad 7 \\ \hline \boxed{1} \quad \boxed{1} \end{array} \end{array}$$

$$\begin{array}{r|l} \text{10.} & \begin{array}{r} \text{tens} \quad \text{ones} \\ 9 \quad 3 \\ - 5 \quad 0 \\ \hline \boxed{4} \quad \boxed{3} \end{array} \end{array}$$

$$\begin{array}{r|l} \text{5.} & \begin{array}{r} \text{tens} \quad \text{ones} \\ 6 \quad 4 \\ - 5 \quad 1 \\ \hline \boxed{1} \quad \boxed{3} \end{array} \end{array}$$

$$\begin{array}{r|l} \text{8.} & \begin{array}{r} \text{tens} \quad \text{ones} \\ 8 \quad 7 \\ - 4 \quad 6 \\ \hline \boxed{4} \quad \boxed{1} \end{array} \end{array}$$

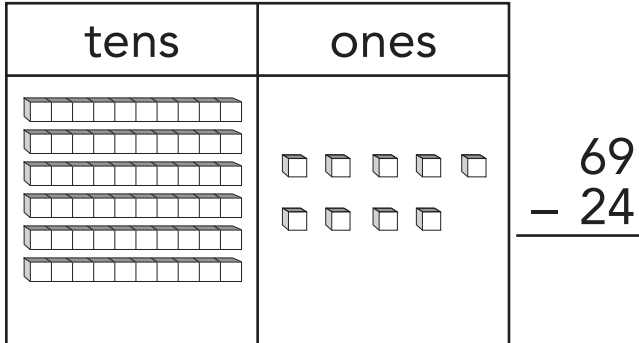
$$\begin{array}{r|l} \text{11.} & \begin{array}{r} \text{tens} \quad \text{ones} \\ 7 \quad 6 \\ - 5 \quad 4 \\ \hline \boxed{2} \quad \boxed{2} \end{array} \end{array}$$

Name _____

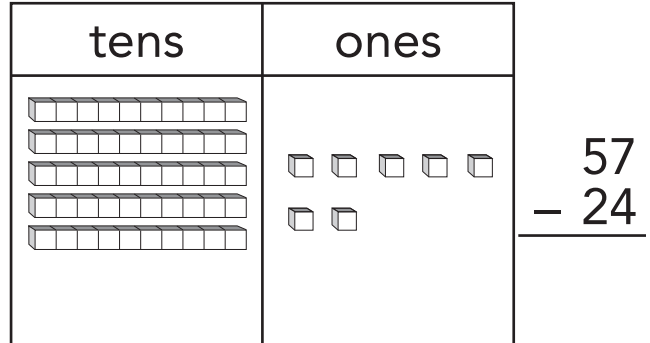
LM 5.8B Two-Digit Subtraction

Count the tens and ones. Mark off to subtract.

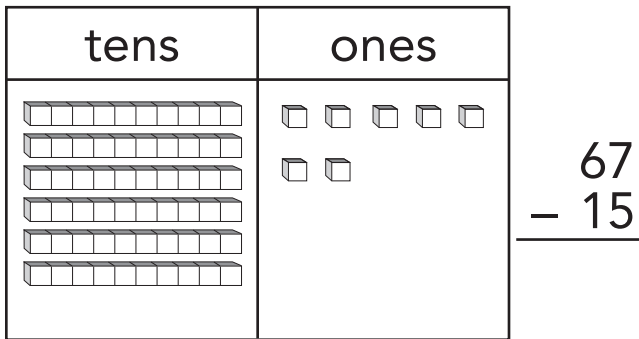
12.



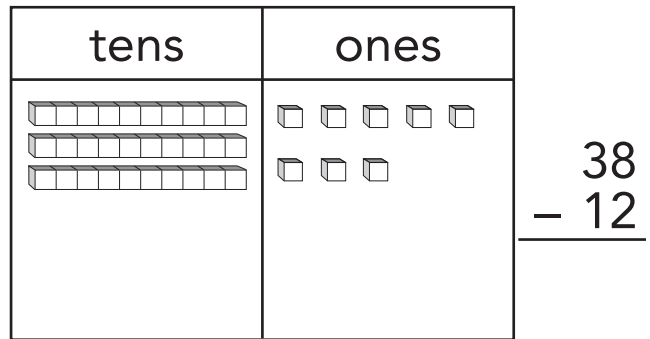
16.



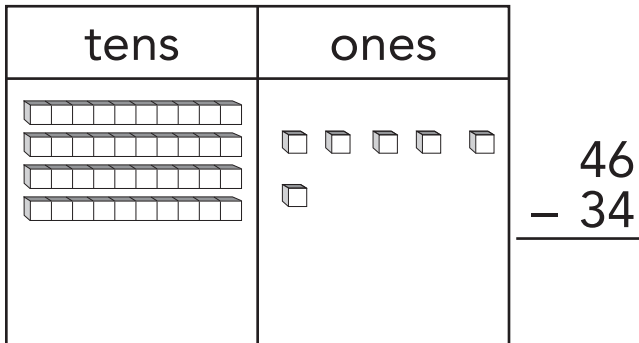
13.



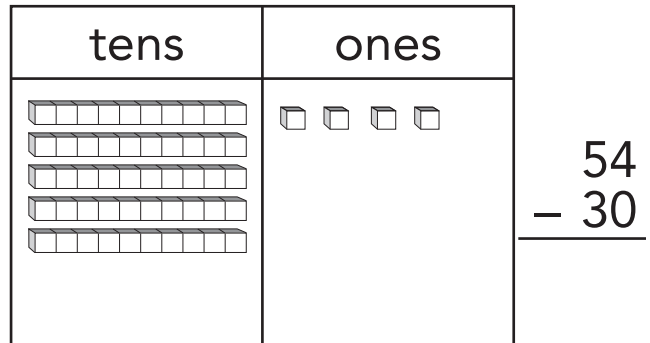
17.



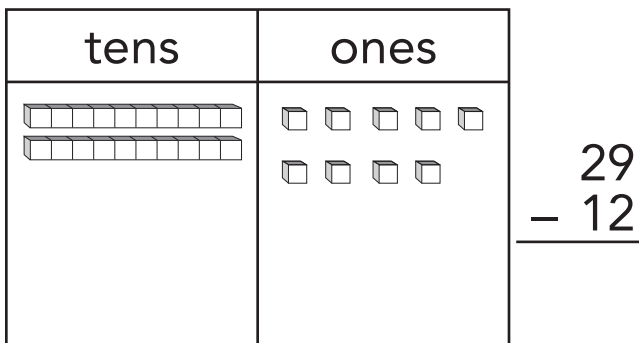
14.



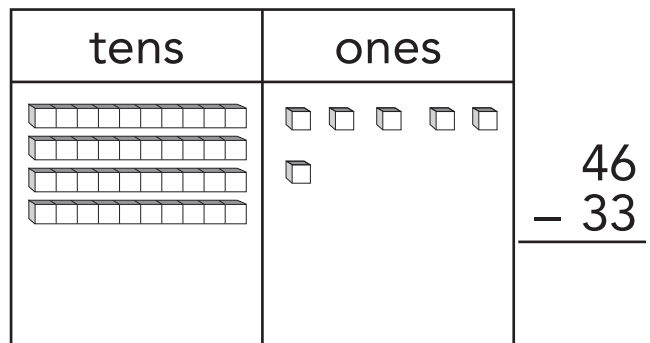
18.



15.



19.





LM 5.8B Two-Digit Subtraction

Count the tens and ones. Mark off to subtract.

12.

tens	ones

$$\begin{array}{r} 69 \\ - 24 \\ \hline 45 \end{array}$$

16.

tens	ones

$$\begin{array}{r} 57 \\ - 24 \\ \hline 33 \end{array}$$

13.

tens	ones

$$\begin{array}{r} 67 \\ - 15 \\ \hline 52 \end{array}$$

17.

tens	ones

$$\begin{array}{r} 38 \\ - 12 \\ \hline 26 \end{array}$$

14.

tens	ones

$$\begin{array}{r} 46 \\ - 34 \\ \hline 12 \end{array}$$

18.

tens	ones

$$\begin{array}{r} 54 \\ - 30 \\ \hline 24 \end{array}$$

15.

tens	ones

$$\begin{array}{r} 29 \\ - 12 \\ \hline 17 \end{array}$$

19.

tens	ones

$$\begin{array}{r} 46 \\ - 33 \\ \hline 13 \end{array}$$

LM 5.9A Subtraction Cards



$$\begin{array}{r} 38 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 96 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ - \square \\ \hline \end{array}$$

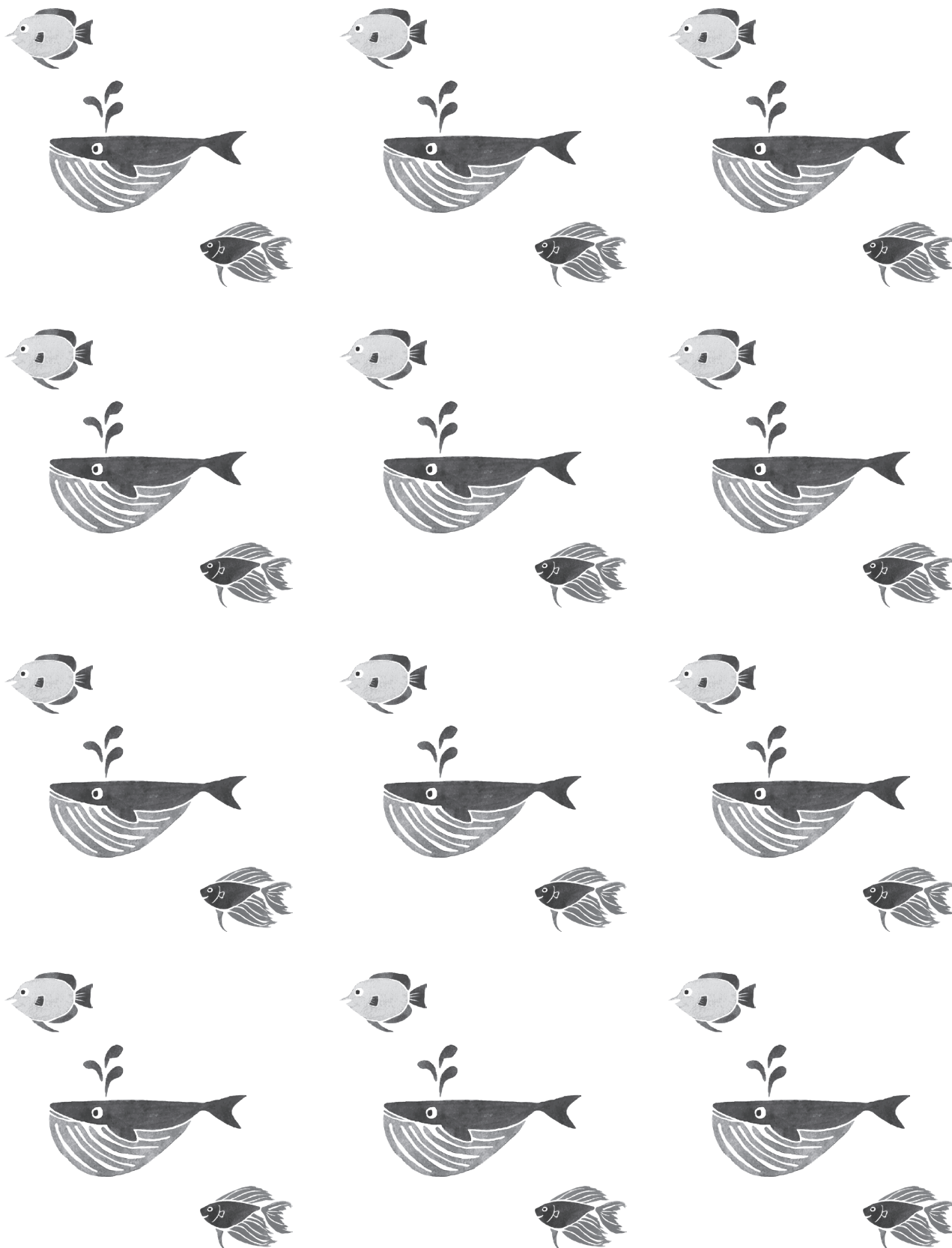
$$\begin{array}{r} 88 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ - \square \\ \hline \end{array}$$

$$\begin{array}{r} 69 \\ - \square \\ \hline \end{array}$$



LM 5.9A Subtraction Cards



LM 5.9B Addition Cards



$$\begin{array}{r} 13 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 82 \\ + \square \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 33 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ + \square \\ \hline \end{array}$$

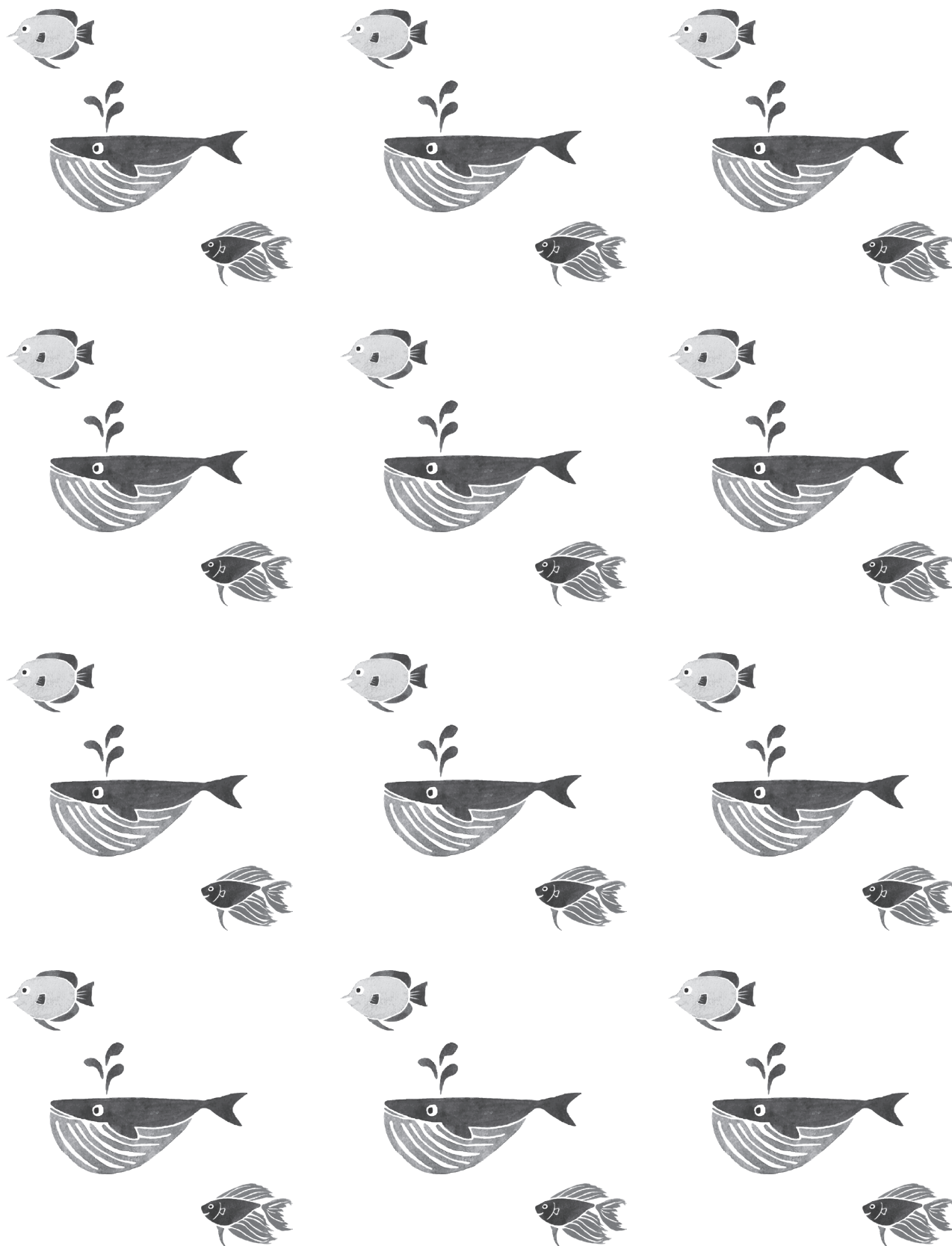
$$\begin{array}{r} 40 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ + \square \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ + \square \\ \hline \end{array}$$



LM 5.9B Addition Cards



Name _____

LM 5.10A Word Problems

Write + or -. Solve.

1. Abby saw 55 gulls and 30 pelicans on the beach. How many birds did she see in all?



_____ birds

tens	ones

--	--

2. As Abby watched the 85 birds, 24 gulls flew away. How many birds were left?



_____ birds

tens	ones

--	--

3. A fishing boat came by. A fisherman threw some fish to 10 pelicans. Soon 23 more pelicans came. How many pelicans were there?



_____ pelicans

tens	ones

--	--



LM 5.10A Word Problems

Write + or -. Solve.

1. Abby saw 55 gulls and 30 pelicans on the beach. How many birds did she see in all?



85 birds

tens	ones
5	5
3	0
+	
8	5

2. As Abby watched the 85 birds, 24 gulls flew away. How many birds were left?



61 birds

tens	ones
8	5
2	4
-	
6	1

3. A fishing boat came by. A fisherman threw some fish to 10 pelicans. Soon 23 more pelicans came. How many pelicans were there?

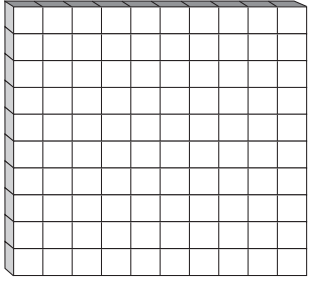


33 pelicans

tens	ones
1	0
2	3
+	
3	3



LM 5.11A Workmat: Hundreds, Tens, and Ones

ones 	
tens 	
hundreds 	



LM 5.11B Game: Hundreds Place Cards



hundreds	tens	ones

hundreds	tens	ones

hundreds	tens	ones

hundreds	tens	ones

hundreds	tens	ones

hundreds	tens	ones

hundreds	tens	ones

hundreds	tens	ones

hundreds	tens	ones

hundreds	tens	ones

hundreds	tens	ones

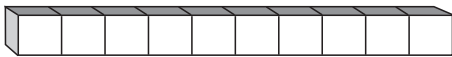
hundreds	tens	ones



LM 5.12A Place Value Labels



tens



ones

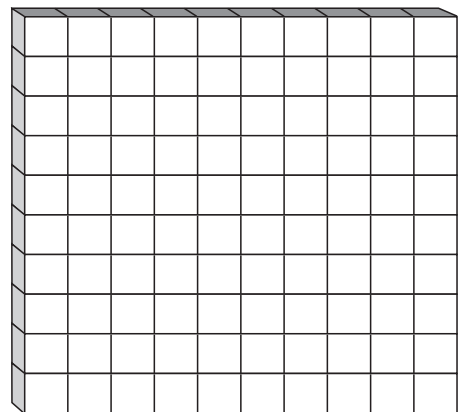




LM 5.12B Place Value Labels



hundreds





Name _____

LM 5.13A Blank Hundred Chart

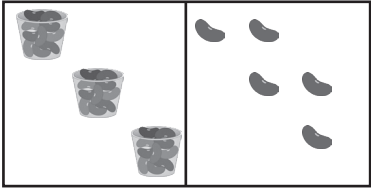


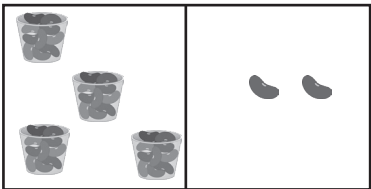
Hundred Chart

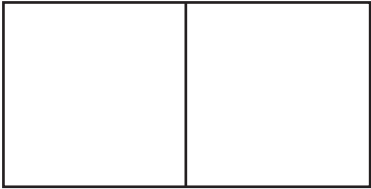
Name _____

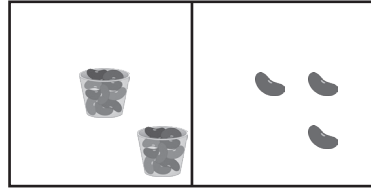
LM 5.14A Chapter 5 Test

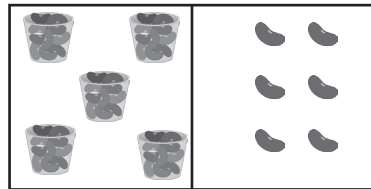
Add.

1.  35

+  _____

 _____

2.  _____

+  _____

 _____

3.
$$\begin{array}{r} 23 \\ + 6 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 11 \\ + 13 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 51 \\ + 45 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 60 \\ + 27 \\ \hline \end{array}$$

Write the digit.

7. How many tens are in 375? _____

8. How many ones are in 970? _____

9. How many hundreds are in 503? _____

Complete the pattern.

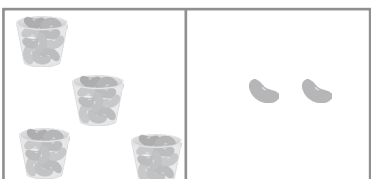
10. 13 33 43

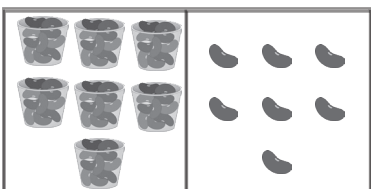


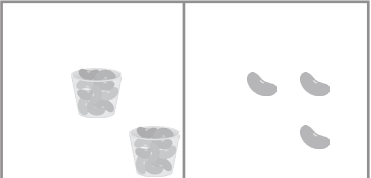
LM 5.14A Chapter 5 Test

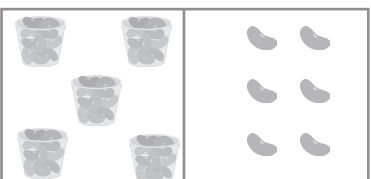
Add.

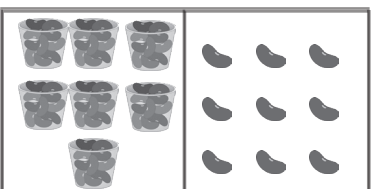
1.  35

+  42

 77

2.  23

+  56

 79

3.
$$\begin{array}{r} 23 \\ + 6 \\ \hline 29 \end{array}$$

4.
$$\begin{array}{r} 11 \\ + 13 \\ \hline 24 \end{array}$$

5.
$$\begin{array}{r} 51 \\ + 45 \\ \hline 96 \end{array}$$

6.
$$\begin{array}{r} 60 \\ + 27 \\ \hline 87 \end{array}$$

Write the digit.

7. How many tens are in 375? 7

8. How many ones are in 970? 0

9. How many hundreds are in 503? 5

Complete the pattern.

10. 13 23 33 43 53 63

Name _____

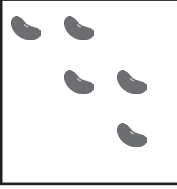
LM 5.14B Chapter 5 Test

Subtract.

11.

		$\begin{array}{r} 68 \\ - 25 \\ \hline \end{array}$

12.

		$\begin{array}{r} 75 \\ - 50 \\ \hline \end{array}$

13.
$$\begin{array}{r} 76 \\ - 60 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 87 \\ - 56 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 99 \\ - 25 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 47 \\ - 34 \\ \hline \end{array}$$

Each picture below shows part of the hundred chart. Complete each part. Write the missing numbers.

17.

56

18.

			10

19.

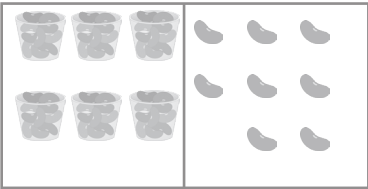
33

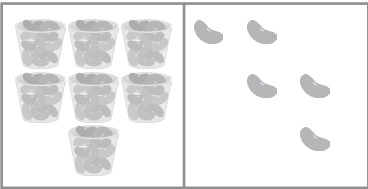
20. Joy was collecting pebbles at the beach. She sorted them into 5 groups of ten and had 4 pebbles left over. Draw a picture. How many pebbles does Joy have?

_____ pebbles

LM 5.14B Chapter 5 Test

Subtract.

11. 
$$\begin{array}{r} 68 \\ - 25 \\ \hline \end{array}$$
 43

12. 
$$\begin{array}{r} 75 \\ - 50 \\ \hline \end{array}$$
 25

13.
$$\begin{array}{r} 76 \\ - 60 \\ \hline 16 \end{array}$$

14.
$$\begin{array}{r} 87 \\ - 56 \\ \hline 31 \end{array}$$

15.
$$\begin{array}{r} 99 \\ - 25 \\ \hline 74 \end{array}$$

16.
$$\begin{array}{r} 47 \\ - 34 \\ \hline 13 \end{array}$$

Each picture below shows part of the hundred chart. Complete each part. Write the missing numbers.

17.

46
56
66
76
77

18.

7	8	9	10
		19	

19.

23

33

43

53

20. Joy was collecting pebbles at the beach. She sorted them into 5 groups of ten and had 4 pebbles left over. Draw a picture. How many pebbles does Joy have?

54 pebbles

Drawings will vary.



DM 5.10A

Number Town

20



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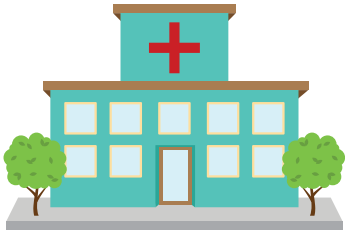
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