Name _____

Quick Check
4-1A

1. The Nemmers family has 12 trees in their yard. The Bradford family has n trees in their yard. Together, the families have 28 trees. How many trees do the Bradfords have?

$12 + n = 28$

A $n = 40$ trees

B $n = 38$ trees

C $n = 20$ trees

D $n = 16$ trees

2. Which equation can represent the following situation?

Barb had 35 books. Jean borrowed n books from Barb. Barb now has 27 books.

A $35 + n = 27$

B $35 - n = 27$

C $35 + 27 = n$

D $n - 35 = 27$

3. **Writing to Explain** You have learned how to find the value of an unknown number in an equation. This will make the equation true. Find the value of n in the equation below and then explain how you found this value. How do you know this value makes the equation true?

$n - 9 = 5$

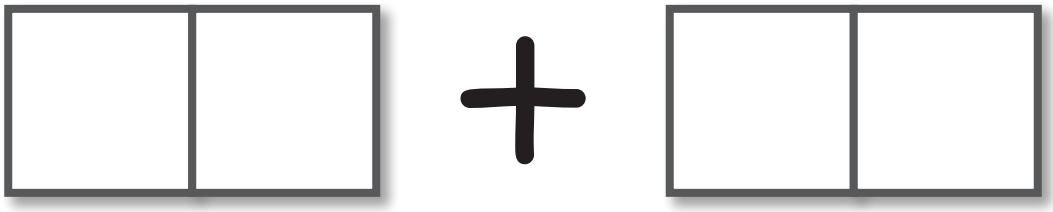
Teamwork

Get Started or

Put 0 1 2 3 4 5 in a bag.
Two players or two teams of two take turns.

Repeat for Each Round

Pick 4 tiles. Display two 2-digit numbers.
Explain how to add those numbers on the hundred chart.
Put your tiles back in the bag for the next round.



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

If you have more time

Find many ways to get a sum of 50 by adding two numbers on the hundred chart.

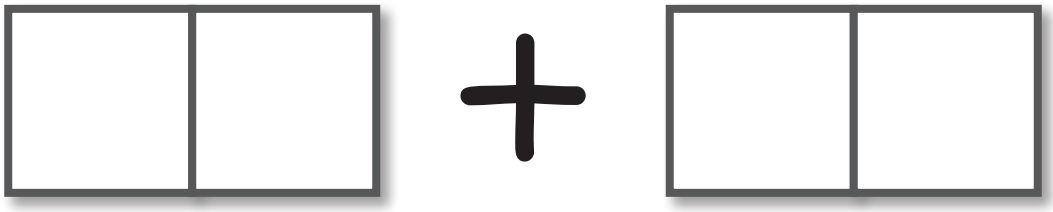
Teamwork

Get Started
or or

Put 0 1 2 3 4 5 in a bag.

Repeat for Each Round

Pick 4 tiles. Display two 2-digit numbers. Take turns until each team member explains a different way to add those numbers on the hundred chart. Put your tiles back in the bag for the next round.



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

If you have more time

Find many ways to get a sum of 100 by adding two numbers on the hundred chart.

Name _____

Reteaching
4-1A

Making Sense of Addition and Subtraction Equations

An **equation** is a number sentence that uses an equal sign (=) to show that the value to its left is the same as the value to its right.

$12 + 4 = 16$ is an example of an equation.

Some equations have letters in them or *unknowns*.

$$9 = n + 2$$

This equation means: 9 is equal to some number + 2

You can find the value of n that makes the equation true or equal on each side by thinking of addition or subtraction facts.

Think: You know that $7 + 2 = 9$, so $n = 7$.

In **1–8,** write a basic fact that is related to each equation. Then find the value for n that makes the equation true.

1. $18 = 9 + n$

_____

_____

2. $n - 4 = 2$

_____

_____

3. $12 = 7 + n$

_____

_____

4. $3 - n = 3$

_____

_____

5. $14 = 6 + n$

_____

_____

6. $n - 5 = 6$

_____

_____

7. $6 = 7 - n$

_____

_____

8. $10 + n = 17$

_____

_____

9. Critique Reasoning Fred decides that $12 + 40 = 62$ is NOT a true equation. Is Fred correct? Explain.

_____

Name _____

Practice
4-1A

Making Sense of Addition and Subtraction Equations

In **1–8,** decide if the two sides are equal. If *yes*, write $=$.
If *no*, write $\neq$ (not equal).

1. $9 \bigcirc 5 + 4$ _____

2. $10 - 4 \bigcirc 5$ _____

3. $23 + 6 \bigcirc 29$ _____

4. $12 \bigcirc 14 - 1$ _____

5. $9 + 2 \bigcirc 7$ _____

6. $14 \bigcirc 5 + 9$ _____

7. $33 \bigcirc 44 - 11$ _____

8. $27 - 9 \bigcirc 18$ _____

In **9–16,** find the value for n that makes the equation true.

9. $16 = 7 + n$ _____

10. $12 = n - 3$ _____

11. $8 = 5 + n$ _____

12. $n - 6 = 3$ _____

13. $7 + n = 7$ _____

14. $24 - n = 14$ _____

15. $n = 45 + 6$ _____

16. $8 = 10 - n$ _____

For **17** and **18,** use the given equation to solve the problem.

17. Dina has 5 orchids. Mae has 13 orchids. How many more orchids does Mae have than Dina?

$5 + n = 13$

_____

18. Juan collected 7 fewer stamps than Jenn. Juan collected 24 stamps. How many stamps did Jenn collect?

$n - 7 = 24$

_____

19. **Model** Derrick has 7 marbles. Roger has n marbles. Together they have 14 marbles. Write an equation to model the problem. How many marbles does Roger have?

_____

20. Which value for n makes the equation $n + 8 = 45$ true?

A $n = 37$ **C** $n = 41$

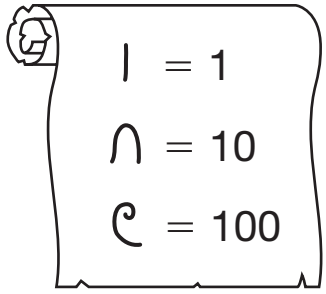
B $n = 38$ **D** $n = 53$

Name _____

Enrichment
4-1A

Egyptian Addition

More than 5,000 years ago ancient Egyptians used a number system that was based on the number ten! Some of the symbols they used are shown at the right.



Here is how the Egyptians would have written 15 + 26 = 41.

Write each number using our number system.
Then find each sum and draw the sum using Egyptian symbols.

1.  +  =

_____ + _____ = _____

2.  +  =

_____ + _____ = _____

3.  +  =

_____ + _____ = _____

4.  +  =

_____ + _____ = _____

