2.OA.B2, 2.OA.A1

Name _____

Topic 1
Assessment

1. Chris draws 8 birds. Luke draws 4 birds. How many birds do they draw in all?

Which shows how to *count on* to solve the problem?

Ⓐ $4 + 8$

Ⓑ $8 + 4$

Ⓒ 8 . . . 9, 10, 11

Ⓓ 8 . . . 9, 10, 11, 12

2. Lisa has 7 pencils. Armando has 2 more pencils than Lisa. Which equations show how many pencils in all? Choose all that apply.

☐ $7 + 9 = 16$

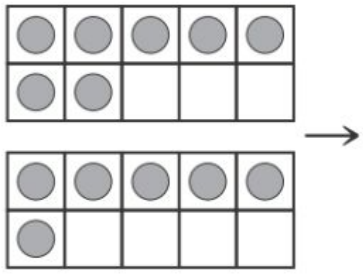
☐ $7 + 2 = 9$

☐ $7 + 7 + 2 = 16$

☐ $7 + 7 = 14$

3. Use the ten-frames. Show how to find the sum of $7 + 6$ by making a 10. Then fill in the gray boxes.

$$\begin{array}{r} 7 \\ +\ 6 \\ \hline \square \end{array}$$



$$\begin{array}{r} 10 \\ +\ \square \\ \hline \square \end{array}$$

4. Which have a sum of 14? Choose all that apply.

☐ $8 + 7$ ☐ $7 + 7$ ☐ $8 + 6$

☐ $10 + 4$ ☐ $9 + 4$

5. 6 friends want to play baseball. They need 9 players to make a team. How many more players do they need?

Draw lines to match each solution to how it was solved.

A. 6 . . . 7, 8, 9	Count back.
B. 9 . . . 8, 7, 6	Use an addition fact.
C. $9 - 6 = 3$	Use a subtraction fact.
D. $6 + 3 = 9$	Count on.

6. Juan has 17 toy cars. He gives his brother 9 toy cars.

Which addition fact can help you find how many toy cars Juan has left?

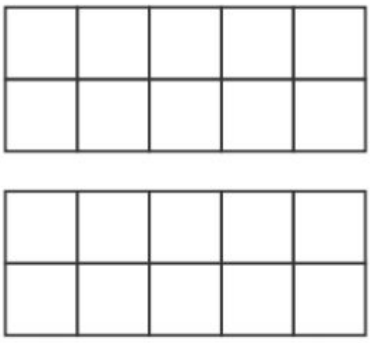
Ⓐ $9 + 9 = 18$

Ⓑ $9 + 8 = 17$

Ⓒ $10 + 7 = 17$

Ⓓ $9 + 6 = 15$

7. Use the ten-frames. Show how to make a 10 to find $16 - 8$. Then complete the equation.



$16 - 8 =$ ____

8. Jen has some rings. She gives 5 rings to Carrie. Now Jen has 7 rings. How many rings did Jen have at first?

Write an equation to solve.

____ ◯ ____ = ____

____ rings

9. Choose Yes or No to show if 5 will make each equation true.

$9 + \square = 16$ ○ Yes ○ No

$10 + \square = 15$ ○ Yes ○ No

$15 - 10 = \square$ ○ Yes ○ No

10. Eric has 6 marbles. Maria has 4 marbles. How many marbles do they have in all? Write an equation to explain.

_____ marbles in all

11. Julie has 8 fewer pears than Dan. Dan has 14 pears. How many pears does Julie have?

Part A

Draw a picture to model the problem.

Part B

Write an equation to solve the problem.

_____ ○ _____ = _____

_____ pears

2.OA.B2, 2.OA.C4, 2.OA.C5

Name _____

Topic **2**
Assessment

1. Carla writes an equation. The sum is an even number greater than 12.

Which equation does Carla write?

Ⓐ $6 + 6 = 12$

Ⓑ $6 + 7 = 13$

Ⓒ $7 + 7 = 14$

Ⓓ $8 + 9 = 17$

2. Dee has 3 rows of pennies with 4 pennies in each row.

Which equation shows how many pennies Dee has in all?

Ⓐ $3 + 3 = 6$

Ⓑ $3 + 3 + 3 = 9$

Ⓒ $4 + 4 + 4 = 12$

Ⓓ $4 + 4 + 4 + 4 = 16$

3. Choose Yes or No to tell if the sum in each equation is an even number.

$3 + 9 = 12$	○ Yes	○ No	$9 + 8 = 17$	○ Yes	○ No
$8 + 8 = 16$	○ Yes	○ No	$5 + 6 = 11$	○ Yes	○ No

4. Darren plants 3 rows of flowers in his garden. He plants 5 flowers in each row.

Draw a picture to show the array of flowers. Then write an equation for your picture.

____ + ____ + ____ = ____

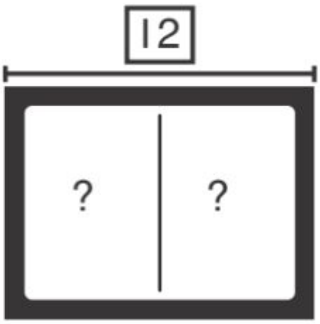
There are ____ flowers in all.

5. How many starfish are shown? Is the number even or odd? Draw a picture to show how you know.

6. Julia has 12 beads. Look at each equation. Choose Yes or No to tell if Julia can use the equation to make an array with the beads.

$5 + 5 = 10$ ○ Yes ○ No	$8 + 4 = 12$ ○ Yes ○ No
$4 + 4 + 4 = 12$ ○ Yes ○ No	$6 + 6 = 12$ ○ Yes ○ No

7. Lucas drew this bar diagram to show 2 equal parts can make 12.



Part A

Draw a picture to show what the "?" stands for.

Part B

Change 12 to 10 in the diagram. What does the "?" stand for now? Tell how you know.

Name _____ 2.NBT.B5, 2.NBT.B9

Topic 3
Assessment

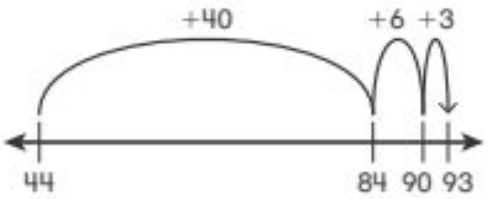
1. Which have a sum of 71? Choose all that apply.

- ☐ 33 + 28
- ☐ 29 + 42
- ☐ 55 + 42
- ☐ 42 + 29
- ☐ 20 + 51

2. Kathy has 44 markers. She gets 25 more markers. How many markers does Kathy have in all? Show your work.

_____ markers

3. Which equation does this number line show?



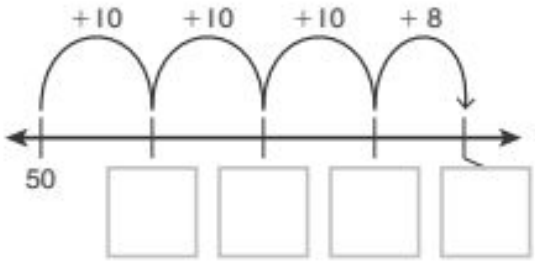
Ⓐ 44 + 46 = 90

Ⓑ 44 + 39 = 83

Ⓒ 44 + 49 = 93

Ⓓ 44 + 50 = 94

4. Use the numbers on the cards. Write the missing numbers under the number line to show how to find the sum of 50 + 38.



70	88	80	60

5. Kevin has 27 cards.
He buys 65 cards.
How many cards does Kevin have now?

Break apart the second addend to solve.
Show your work.

____ cards

6. Show how to add 58 + 16 using the open number line.

58 + 16 = ____

7. Part A
Show how you can use an open number line to find 49 + 37.

49 + 37 = ____

Part B
In words, tell how you used the open number line to find the sum.

8. Which have a sum of 50? Choose all that apply.

- ☐ 25 + 15
- ☐ 25 + 25
- ☐ 35 + 15
- ☐ 10 + 40
- ☐ 30 + 30

9. Carol has 27 books. Justin has 15 books. Will all of the books fit on a shelf that can hold 35 books?

Make a math argument. Explain.

10. Abe has 33 pens. Marcy has 57 more pens than Abe. How many pens does Marcy have? Show your work and explain your thinking.

____ pens

11. Which are equal to 27 + 55? Choose all that apply.

- ☐ 20 + 50 + 7 + 5
- ☐ 30 + 52
- ☐ 30 + 55
- ☐ 20 + 50 + 12

12. Gail has 57 pennies. She gets 18 more pennies from Cara. How many pennies does Gail have now?

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

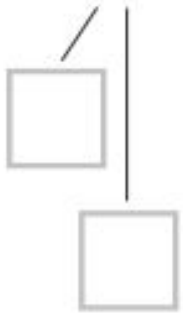
____ ◯ ____ = ____

____ pennies

13. Is each sum 48? Choose Yes or No.

$20 + 20 + 8$	○ Yes	○ No
$24 + 24$	○ Yes	○ No
$8 + 18 + 22$	○ Yes	○ No
$38 + 20$	○ Yes	○ No

14. Break apart the second addend to find $16 + 67$. Show your work.



$16 + 67 =$ ____

15. Write an equation to solve each part of the two-step problem.

Matt has 44 seeds.
He gives away 10 seeds.
Then he buys 8 more seeds.
How many seeds does he have now?

____ ○ ____ = ____

____ ○ ____ = ____

Matt has ____ seeds.

16. Show two different ways to find $33 + 59$ using compensation.

Way 1 **Way 2**