Name _____ Date _____

Solve Word Problems

Show or tell how to solve the problems using each tool. Write a number sentence.

1. There was an army of 13 ants. Some ants walked away. Now there are 5 ants left. How many walked away?

Show the problem in a diagram:

Whole	
Part	**Part**

Use a ten frame:

Use a number line:

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
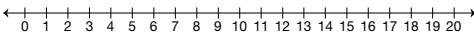
Number sentence _____

Solve Word Problems   SAB · Grade 2 · Unit 1 · Lesson 8   **43**

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Name _____ Date _____

2. There are 12 elephants at the zoo. Nine elephants are awake and the rest are sleeping. How many elephants are sleeping?

Show the problem in a diagram:

Whole	
Part	**Part**

Use a ten frame:

Use a number line:

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
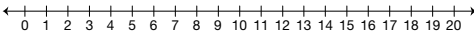
Number sentence _____

44   SAB · Grade 2 · Unit 1 · Lesson 8   Solve Word Problems

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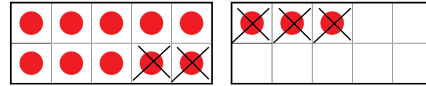
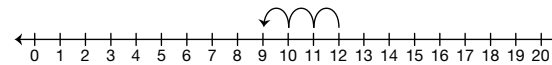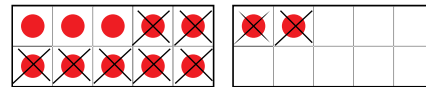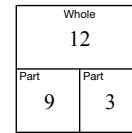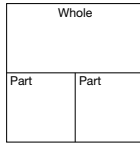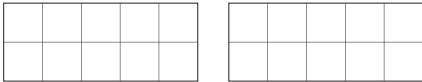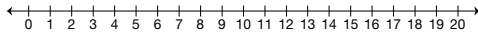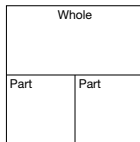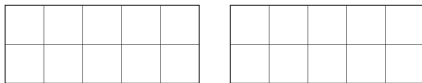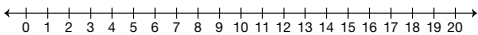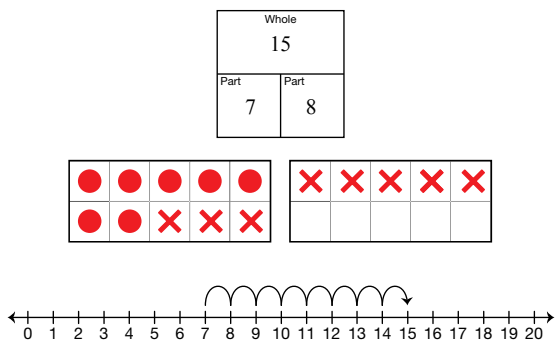*Student Activity Book - Page 44*

Student Activity Book

Solve Word Problems (SAB pp. 43–47) Questions 1–4

Strategies will vary. Possible strategies are indicated for each problem.

1. 8 ants; $13 - \boxed{8} = 5$ or $5 + \boxed{8} = 13$; Possible strategies:

Whole	
13	
Part	**Part**
5	8

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
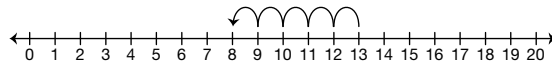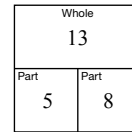
2. 3 elephants; $12 - 9 = \boxed{3}$ or $9 + \boxed{3} = 12$.

Whole	
12	
Part	**Part**
9	3

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

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3. 15 monkey; $7 + 8 = 15$

4. A.* Possible response: I do not agree with Carla. She did not solve it correctly. She put 17 in the "part" box and she should have put it in the "whole" box because that's the total number of dogs there were before some were adopted.

B.* My answer is 9 dogs. I put 8 in my head and counted up to 17: 9, 10, 11, 12, 13, 14, 15, 16, 17. The answer is 9; $17 - 8 = \boxed{9}$ or $8 + \boxed{9} = 17$

Name _____ Date _____

3. One cage has 7 monkeys. Another cage has 8 more than the first cage. How many monkeys are in the second cage?

Show the problem in a diagram:

Use a ten frame:

Use a number line:

Number sentence _____

Student Activity Book - Page 45

Name _____ Date _____

4. There were 17 dogs at a shelter. Some of them were adopted. Now there are 8 dogs left. How many were adopted?

Carla solved the problem this way:

A. Do you agree with Carla? Why or why not?

_____

_____

_____

Student Activity Book - Page 46

Name _____ Date _____

B. Show or tell how to solve the problem.

Number sentence _____

Student Activity Book - Page 47

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*Answers and/or discussion are included in the lesson.

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Animal Trading Cards (SAB pp. 49–53)
Questions 1–7

1. $14¢$
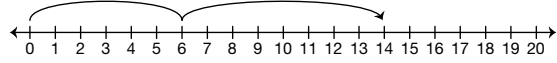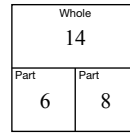
$$6¢ + 8¢ = 14¢$$

2. Whale card.

$$12¢ + 7¢ = 5¢$$

$$7¢ + 5¢ = 12¢$$

3. $4¢$.

$$9¢ - 5¢ = 4¢$$

$$5¢ + 4¢ = 9¢$$

4. Lion card. Number sentence: $17¢ - 10¢ = 7¢$.

Whole	
17	
Part	Part
10	7

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

5. $19¢$.

Whole		
19		
Part	Part	Part
6	5	8

monkey · whale · ant

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
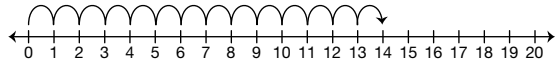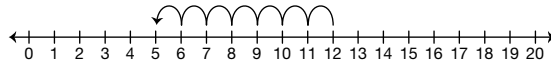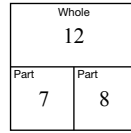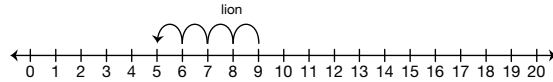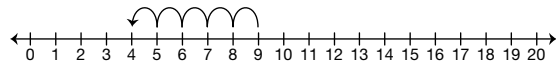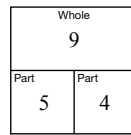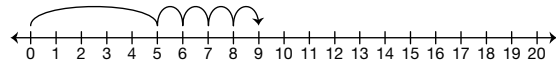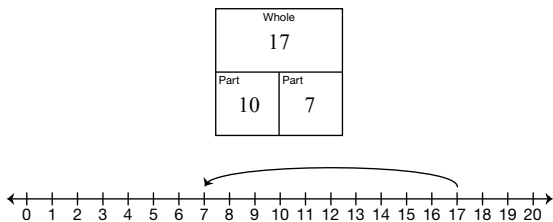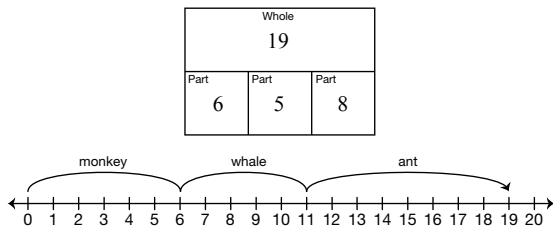
$6¢ + 5¢ + 8¢ = 19¢$

6.* Responses will vary. Possible response: Nicholas should count the number of jumps he made back to 10: 16, 15, 14, 13, 12, 11, 10. The answer is 7. $17 - 10 = 7$ Kim can buy a lion card.

Name _____ Date _____

4. Kim had 17¢. She bought one card. She had a dime left over.

What trading card did Kim buy? _____

Whole	
Part	Part

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number sentence _____

5. Jason bought a monkey card, a whale card, and an ant card.

How much did he spend? _____

Whole		
Part	Part	Part

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number sentence _____

Student Activity Book - Page 51

Name _____ Date _____

6. Kim had 17¢. She bought one card. She had a dime left over. What trading card did Kim buy?

Nicholas started to solve the problem this way:

Nicholas

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Help him finish his solution.

Number sentence _____

Student Activity Book - Page 52

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*Answers and/or discussion are included in the lesson.
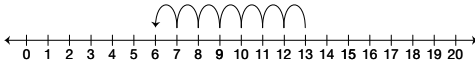
Student Activity Book - Page 53

On the student page:

Name _____ Date _____

7. Nisha has 13¢. She wants to buy an ant card. What other card can she buy?

Emily solved the problem this way:

I counted back on the number line. I started at 13 and counted back 8: 13, 12, 11, 10, 9, 8, 7, 6. She can buy a monkey card.

Emily

(number line 0–20)

A. Do you agree with Emily? Why or why not?

B. Show or tell how you would solve the problem.

Number sentence _____

Solve Word Problems   SAB · Grade 2 · Unit 1 · Lesson 8   **53**

7. A.* Emily is not correct. She did not understand that she needs to count spaces (or hops), not numbers, on the number line. She started counting at 13 and counted back 8 times: 13, 12, 11, 10, 9, 8, 7, 6.

B.* She should have started with 12 and she would have reached 5. Nisha could buy a whale card. Number sentence: $13¢ - 8¢ = 5¢$

Student Activity Book - Page 55

Name _____ Date _____

Trading Cards Problems

Flock of Sheep **4¢**	Pod of Whales **5¢**	Troop of Monkeys **6¢**	Pride of Lions **7¢**	Army of Ants **8¢**	Litter of Puppies **9¢**

Show or tell how to solve each problem. Write a number sentence for each. Use connecting cubes, drawings, a number line, or a part-whole diagram.

1. Emily has 17¢. She bought an ant card. How much does Emily have left? Show how to use a part-whole diagram to model the problem.

Whole
Part	Part

Number sentence _____

Solve Word Problems   SAB · Grade 2 · Unit 1 · Lesson 8   **55**

Trading Card Problems (SAB pp. 55–57)
Questions 1–6

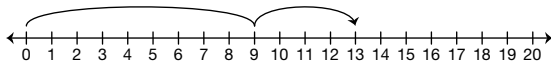**1.** $17¢ - 8¢ = 9¢$

Whole
17

Part	Part
8	9

*Answers and/or discussion are included in the lesson.

2. $9¢ + 4¢ = 13¢$

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

3. Puppy card. $15¢ - 6¢ = \boxed{9¢}$ or $\boxed{9¢} + 6¢ = 15¢$

Possible response: I started at 6 and counted up to 15. My answer is 9.

Flock of Sheep **4¢**	Pod of Whales **5¢**	Troop of Monkeys **6¢**	Pride of Lions **7¢**	Army of Ants **8¢**	Litter of Puppies **9¢**

---

4. $15¢$. $8¢ + 7¢ = 15¢$

Possible response: I put 8 in my head and counted on 7 more: 9, 10, 11, 12, 13, 14, 15. My answer is $15¢$.

5. Peter spent $4¢$ more than Tanya. Possible strategy: I knew Peter spent more but how much more? $5¢ + 5¢ = 10¢$ so $9 - 5 = 4$ is one less or $4¢$; $9¢ - 5¢ = 4¢$.

6. Peter had 10c at the start. Possible strategy: $\boxed{} - 3¢ = 7¢$ or $3¢ + 7¢ = \boxed{}$. I thought about a ten frame. $3 + 7 = 10$ so I knew he started with $10¢$.

Student Activity Book - Page 56

Name _____ Date _____

2. How much will a puppy card and a sheep card cost combined? Show how to use the number line to solve the problem.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
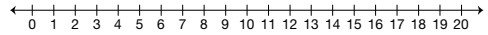
Number sentence _____

3. Chris bought two cards and paid 15¢. One card was a monkey card. Circle the other card.

Flock of Sheep **4¢**	Troop of Monkeys **6¢**	Litter of Puppies **9¢**
Pod of Whales **5¢**	Pride of Lions **7¢**	Army of Ants **8¢**

Number sentence _____

Student Activity Book - Page 57
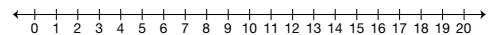
Name _____ Date _____

4. Johny wants a lion card and an ant card. How much money does he need?
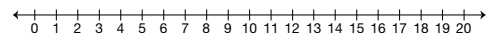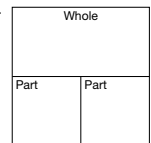
Number sentence _____

5. Tanya bought a whale card and Peter bought a puppy card. Who spent more money? How much more money did he or she spend?

Show or tell how you solved the problem.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number sentence _____

6. Peter bought a lion card and has 3¢ left. How much money did he have at the start? Show or tell how to solve the problem.

Whole	
Part	Part

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number sentence _____

Teacher Guide - Page 1

Name _____ Date _____

Practice with Trading Cards

Homework

Dear Family Member:

Your child has been solving addition and subtraction problems in class. Encourage him or her to share some of the strategies and tools used in class. Help your child read and solve the problems below. Ten frames, part-whole diagrams, or number lines are good tools for solving these problems.

Thank you.

Show or tell how to solve each problem. Write a number sentence.

| Flock of Sheep **4¢** | Pod of Whales **5¢** | Troop of Monkeys **6¢** | Pride of Lions **7¢** | Army of Ants **8¢** | Litter of Puppies **9¢** |

1. Carla had 18¢. She bought a puppy card. How much money did she have left?

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number sentence _____

Teacher Guide - Page 2

Name _____ Date _____

2. Luis has the sheep card, monkey card, and whale card in his collection. What did his collection cost?

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number sentence _____

3. Mark spent 9¢ on two different cards. Circle the cards he bought.

| Flock of Sheep **4¢** | Pod of Whales **5¢** | Troop of Monkeys **6¢** | Pride of Lions **7¢** | Army of Ants **8¢** | Litter of Puppies **9¢** |

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number sentence _____

4. Josh has 15¢. He bought two different cards. Circle the cards he bought.

| Flock of Sheep **4¢** | Pod of Whales **5¢** | Troop of Monkeys **6¢** | Pride of Lions **7¢** | Army of Ants **8¢** | Litter of Puppies **9¢** |

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number sentence _____

Teacher Guide

Practice with Trading Cards (TG pp. 1–2)
Homework
Questions 1–4

1. 9¢ left; $18¢ - 9¢ = 9¢$;
   Possible strategy: I know my doubles.
   $9¢ + 9¢ = 18¢$.

2. $4¢ + 6¢ + 5¢ = 15¢$;
   Possible strategy: I found a ten. $6 + 4 = 10$ and $10 + 5 = 15$.

3. He bought a sheep and a whale card;
   $4¢ + 5¢ = 9¢$

4. Possible responses: He bought a monkey and a puppy card. $6¢ + 9¢ = 15¢$. I know $10 + 5 = 15$ so $9 + 6 = 15$; He bought a lion and an ant card. $7¢ + 8¢ = 15¢$. I know $7 + 7 = 14$ so $7 + 8 = 15$.