

Lesson	Problem
Lesson 3	The teacher has 48 folders. She gives 6 folders to the first table. How many folders does she have now?
Lesson 4	Mark had a stick of 9 green linking cubes. His friend gave him 4 yellow linking cubes. How many linking cubes does Mark have now?
Lesson 5	Mia counted all the fish in a tank. She counted 38 goldfish and 4 black fish. How many fish were in the tank?
Lesson 6	Mary buys 30 stickers. She puts 7 in her friend's backpack. How many stickers does Mary have left?
Lesson 7	Ricardo gave 5 tacos to his sister. He started with 13. How many tacos does Ricardo have left?
Lesson 8	Emma has 45 pencils. Eight pencils are sharpened. How many pencils are not sharpened?



Lesson	Problem
1	Vincent counts 30 dimes and 87 pennies in a bowl. How many more pennies than dimes are in the bowl?
2	With one push, Brian's toy car traveled 40 centimeters across the rug. When pushed across a hardwood floor, it traveled 95 centimeters. How many more centimeters did the car travel on the hardwood floor than across the rug?
3	Jamie has 65 flash cards. Harry has 8 more cards than Jamie. How many flash cards does Harry have?
4	Caleb has 37 more pennies than Richard. Richard has 40 pennies. Joe has 25 pennies. How many pennies does Caleb have?
5	Ethan has 8 fewer playing cards than Tristan. Tristan has 50 playing cards. How many playing cards does Ethan have?
6	Eve is 7 centimeters shorter than Joey. Joey is 91 centimeters tall. How tall is Eve?
7	Luigi has 9 more books than Mario. Luigi has 52 books. How many books does Mario have?
8	Bill the frog jumped 7 centimeters less than Robin the frog. Bill jumped 55 centimeters. How far did Robin jump?
9	Richard's sunflower is 9 centimeters shorter than Oscar's. Richard's sunflower is 75 centimeters tall. How tall is Oscar's sunflower?
10	none



Lesson	Problem
1	none
2	Ben and his dad have sold 60 chocolate chip cookies at the school bake sale. If they baked 100 cookies, how many cookies do they still need to sell?
3	Kinnear decided that he would bike 100 miles this year. If he has biked 64 miles so far, how much farther does he have to bike?
4	At his birthday party, Joey got \$100 from each of his two grandmothers, \$40 from his dad, and \$5 from his little sister. How much money did Joey get for his birthday?
5	Freddy has \$250 in ten dollar bills. a. How many ten dollar bills does Freddy have? b. He gave 6 ten dollar bills to his brother. How many ten dollar bills does he have left?
6	Timmy the monkey picked 46 bananas from the tree. When he was done, there were 50 bananas left. How many bananas were on the tree at first?
7	Billy found a briefcase full of money. He counted up 23 ten dollar bills, 2 hundred dollar bills, and 4 one dollar bills. How much money was in the briefcase?
8	Stacey has \$154. She has 14 one dollar bills. The rest is in ten dollar bills. How many ten dollar bills does she have?
9	Sarah earns \$10 each week for weeding the garden. If she saves all of the money, how many weeks will it take her to save up \$150?

10	Jerry is a second grader. He was playing in the attic and found an old, dusty trunk. When he opened it, he found things that belonged to his grandfather. There was a cool collection of old coins and bills in an album. One bill was worth \$1,000. Wow! Jerry lay down and started daydreaming. He thought about how good it would feel to give as many people as he could a ten dollar bill. He thought about how he had felt on his birthday last year when he got a card from his uncle with a ten dollar bill inside. But even more, he thought about how lucky he felt one snowy, cold day walking to school when he found a ten dollar bill in the snow. Maybe he could quietly hide the ten dollar bills so that lots of people could feel as lucky as he did on that cold day! He thought to himself, "I wonder how many ten dollar bills are equal to a thousand dollar bill? I wonder how many people I could
	bring a lucky day to?"
11	Samantha is helping the teacher organize the pencils in her classroom for the teacher. She finds 41 yellow pencils and 29 blue pencils. She threw away 12 that were too short. How many pencils are left in all?
12	How many packages of 10 cookies can Collette make using 124 cookies? How many cookies does she need to complete another package of 10?
13	Sarah's mom bought 4 boxes of crackers. Each box had 3 smaller packs of 10 inside. How many crackers were in the 4 boxes?
14	A second grade class has 23 students. What is the total number of fingers of the students?
15	none
16	At recess Diane skip-roped 65 times without stopping. Peter skip-roped 20 times without stopping. How many more times did Diane skip-rope than Peter?

17	Walking on the beach on Tuesday, Darcy collected 35 rocks. The day before, she collected 28. How many fewer rocks did she collect on Monday than on Tuesday?
	For an art project, Daniel collected 15 fewer maple leaves than oak leaves. He collected 60 oak leaves. How many maple leaves did he collect?
18	After guiding the students through the RDW process, let them analyze some work. Here are some suggested questions based on the drawings to the right. How does the number sentence relate to the drawing? How does the first drawing relate to the second drawing? What did the student who drew the number disks do to start the problem? Could the person who drew the number bonds also have started with making both the oak and maple leaves equal? Can you see that equality in both pictures?
19	Mr. Palmer's second grade class is collecting cans for recycling. Adrian collected 362 cans, Jade collected 392 cans, and Isaiah collected 562 cans. a) How many more cans did Isaiah collect than Adrian? b) How many less cans did Adrian collect than Jade?
20	399 jars of baby food are sitting on the shelf at the market. Some jars fall off and break. 389 jars are still on the shelf. How many jars broke?
21	Rahim is reading a really exciting book! He's on page 98. If he reads 10 pages every day, what page will he be on in 3 days?



Lesson	Problem
1	In the morning, Jacob found 23 seashells on the beach. In the afternoon, he found 10 more. In the evening, he found 1 more. How many seashells did Jacob find in all? If he gives 10 to his brother, how many seashells will Jacob have left?
2	Susan has 57 cents in her piggy bank. If she just put in 30 cents today, how much did she have yesterday?
3	Terrell puts 19 stamps in his book on Monday. He puts in 32 stamps on Tuesday. How many stamps does Terrell put in his book? If Terrell's book holds 90 stamps, how many more stamps does he need to fill his book?
4	Carlos bought 61 t-shirts. He gave 29 of them to his friends. How many t-shirts does Carlos have left?
5	none
6	Mr. Wally's class collects 36 cans for the recycling program. Then Azniv brings in 8 more cans. How many cans does the class have now?
7	Farmer Andino's chickens laid 47 brown eggs and 39 white eggs. How many eggs did the chickens lay in all?
8	At the school fair, 29 cupcakes were sold and 19 were left over. How many cupcakes were brought to the fair?
9	Marla spilled a box of paper clips. They landed on her desk and on the floor. 20 of them landed on her desk, and 5 more fell on the floor than landed on her desk. How many paper clips did she spill?
10	Moses sold 24 raffle tickets on Monday and 4 fewer on Tuesday. How many tickets did he sell in all on both days?

11	Shelby picks 35 oranges. 5 are rotten. How many of Shelby's oranges are not rotten? Rosa picks 35 oranges, too, but 6 are rotten. How many of Rosas oranges are not rotten?
12	Barb has a bag of 34 cherries. She eats 17 cherries for a snack. How many cherries does she have left?
13	Mrs. Beachy went shopping with \$42. She spent \$18. How much money did she have left?
14	The total length of a red string and a purple string is 73 cm. The red string is 18 cm long. How long is the purple string?
15	There are 136 students in the second grade at Miles Davis Elementary. 27 of them brought sack lunches to school. The rest buy the hot lunch. How many students are buying a hot lunch?
16	none
17	Erasers come in boxes of 10. Victor has 14 boxes. Gabby has 5 boxes. a. How many erasers does Victor have? b. How many erasers does Gabby have? c. If Gabby gets another box, how many erasers do they have in all?
18	Hailey and Gio solve 56 + 85. Gio says the answer is 131. Hailey says the answer is 141. Explain whose answer is correct using numbers, pictures, or words.
19	There are 35 note cards in one box. The other box holds 67 cards. How many cards are there in all?
20	Kendra and Jojo are counting their marbles. Kendra has 38 and Jojo has 62. Kendra says they have 100 marbles altogether, but Jojo says they have 90. Use words, numbers, or a model to prove who is correct.

21	Katrina has 23 stickers and Jennifer has 9. How many more stickers does Jennifer need to have as many as Katrina?
22	There are 38 apples, 16 bananas, 24 peaches, and 12 pears in the fruit basket. How many pieces of fruit are in the basket?
23	Yossef downloaded 115 songs. 100 of them were rock. The rest were hip-hop. a. How many of Yossef's songs were hip-hop? b. 80 of his rock songs were oldies. How many rock songs were new?
24	Sammy bought 114 notecards. He used 70 of them. How many notecards did he have left?
25	114 people went to the fair. 89 of them went in the evening. How many went during the day?
26	Chloe needs 153 beads to make a bag. She only has 49. How many more beads does she need?
27	Mr. Ramos has 139 pencils and 88 erasers. How many more pencils than erasers does he have?
28	Jerry made 200 pizzas. He sold some of them and had 57 pizzas left. How many did he sell?
29	Kathy read 15 fewer pages than Lucy. Lucy read 51 pages. How many pages did Kathy read?
30	Eli spent 87 cents for a notebook and 38 cents for a pencil. How much money did he spend in all?
31	none



Lesson	Problem
1	The shelter rescued 27 kittens in June. In July, it rescued 11 more. In August, it rescued 40 more. How many kittens did the shelter rescue during those 3 months? If 64 of those kittens found homes by August, how many still needed homes?
2	Max has 42 marbles in his marble bag after he added 20 marbles at noon. How many marbles did he have before noon?
3	A children's library sold 27 donated books. Now they have 48. How many books were there to begin with?
4	Diane needs 65 craft sticks to make a gift box. She only has 48. How many more craft sticks does she need?
5	Jenny had 39 collectible cards in her collection. Tammy gave her 36 more. How many collectible cards does Jenny have now?
6	Maria made 60 cupcakes for the school bake sale. She sold 28 cupcakes on the first day. How many cupcakes did she have left?
7	Jeannie got a pedometer to count her steps. The first hour, she walked 43 steps. The next hour, she walked 48 steps. a. How many steps did she walk in the first two hours? b. How many more steps did she walk in the second hour than in the first?
8	Susan has 37 pennies. M.J. has 55 pennies more than Susan. a. How many pennies does M.J. have? b. How many pennies do they have altogether?

9	The table to the right represents the halftime score at a basketball game. The red team scored 19 points in the second half. The yellow team scored 13 points in the second half. a. Who won the game? b. By how much did that team win?
10	Benjie has 36 crayons. Ana has 12 fewer crayons than Benjie. a. How many crayons does Ana have? b. How many crayons do they have altogether?
11	Mr. Arnold has a box of pencils. He passes out 27 pencils and has 45 left. How many pencils did Mr. Arnold have in the beginning?
12	none
13	A fruit seller buys a carton of 90 apples. Finding that 18 of them are rotten, he throws them away. He sells 22 of the ones that are left on Monday. How many apples does he have left to sell?
14	Brienne has 23 fewer pennies than Alonzo. Alonzo has 45 pennies. a. How many pennies does Brienne have? b. How many pennies do Alonzo and Brienne have altogether?
15	Catriona earned 16 more stickers than Peter. She earned 35 stickers. How many stickers did Peter earn? MaryJo earned 47 stickers. How many more does Peter need to have the same amount as MaryJo?
16	Will read 15 more pages than Marcy. Marcy read 38 pages. The book is 82 pages long. a) How many pages did Will read? b) How many more pages does Will need to read to finish the book?

17	Colleen put 27 fewer beads on her necklace than Jenny did. Colleen put on 46 beads. How many beads did Jenny put on her necklace? If 16 beads fell off of Jenny's necklace, how many beads are still on it?
18	Joseph collected 49 golf balls from the course. He still had 38 fewer than his friend Ethan. How many balls did Ethan have? If Ethan gave Joseph 24 golf balls, who had more golf balls? How many more?
19	none
20	none



Lesson	Problem
1	Julisa has 12 stuffed animals. She wants to put the same number of animals into each of 3 baskets. Draw a picture to show how she can put the animals into 3 equal groups. Then complete the sentence. Julisa can put animals into each basket.
2	Mayra sorts her socks by color. She has 4 purple socks, 4 yellow socks, 4 pink socks, and 4 orange socks. Draw groups to show how Mayra sorts her socks. Then write an addition sentence to match. How many socks does Mayra have in all?
3	Markers come in packs of 2. If Jessie has 6 packs of markers, how many markers does she have in all? a. Draw groups to show Jessie's packs of markers. b. Write a repeated addition sentence to match your drawing. c. Group addends into pairs and add to find the total.
4	The flowers are blooming in Maria's garden. There are 3 roses, 3 buttercups, 3 sunflowers, 3 daisies, and 3 tulips. How many flowers are there in all? a. Draw a tape diagram to match the problem. b. Write a repeated addition sentence to solve.
5	Mrs. White is in line at the bank. There are 4 teller windows, and 3 people are standing in line at each window. a. Draw an array to show the people in line at the bank. b. Write the total number of people.
6	Sam is organizing her greeting cards. She has 8 red cards and 8 blue cards. She puts the red ones in 2 columns and the blue ones in 2 columns to make an array. a. Draw a picture of Sam's greeting cards in the array. b. Write a statement about Sam's array.

7	Bobby puts 3 rows of tile in his kitchen to make a design. He lays 5 tiles in each row. a. Draw a picture of Bobby's tiles. b. Write a number sentence to solve for the total number of tiles Bobby used.
8	 Charlie has 16 blocks in his room. He wants to build equal towers with 5 blocks each. a. Draw a picture of Charlie's towers. b. How many towers can Charlie make? c. How many more blocks does Charlie need to make equal towers of 5? d. Draw a picture of a different way Charlie could make equal towers using exactly 16 blocks.
9	none
10	Sandy's toy telephone has buttons arranged in 3 columns and 4 rows. a. Draw a picture of Sandy's telephone. b. Write a number sentence to show the total number of buttons on Sandy's telephone.
11	Ty bakes two pans of brownies. In the first pan he cuts 2 rows of 8. In the second pan he cuts 4 rows of 4. Draw a picture of Ty's brownie pans. a. Write a number sentence to show the total number of brownies in each pan. b. How many brownies did Ty bake altogether? Write a number sentence and a statement to show your answer.
12	Lulu made a pan of brownies. She cut them into 3 rows and 3 columns. a. Draw a picture of Lulu's brownies in the pan. b. Write a number sentence to show how many brownies Lulu has. c. Write a statement about Lulu's brownies. Extension: How should Lulu cut her brownies if she wants to serve 12 people? 16 people? 20 people?

13	 Ellie bakes a square pan of 9 lemon bars. Her brothers eat 1 row of her treats. Then her mom eats 1 column. a. Draw a picture of Ellie's lemon bars before any are eaten. Write a number sentence to show how to find the total. b. Write an X on the bars that her brothers eat. Write a new number sentence to show how many are left. c. Draw a line through the bars that her mom eats. Write a new number sentence to show how many are left. d. How many bars are left? Write a statement.
14	none
15	Rick is filling his muffin pan with batter. He fills 2 columns of 4. One column of 4 is empty. Draw to show the muffins and the empty column. Then write a repeated addition sentence to tell how many muffins Rick makes and how many muffin cups there are in the pan.
16	Rick is baking muffins again. He filled 3 columns of 3, and left one column of 3 empty. Color the pan to show what the muffin pan looked like. Write a repeated addition sentence to tell how many muffins he makes and how many muffin cups are in the whole pan.
17	Seven students sit on one side of a lunch table. Seven more students sit across from them on the other side of the table. a. Draw an array to show the students. b. Write an addition sentence that matches the array. Three more students sit down on each side of the table. c. Draw an array to show how many students there are now. d. Write an addition sentence that matches the new array.
18	Eggs come in cartons of 12. Use pictures, numbers, or words to explain whether 12 is even or not even.

19	Eggs come in cartons of 12. Joanna's mom used 1 egg. Use pictures, numbers, or words to explain whether the amount left is even or odd.
20	 Mrs. Boxer has 11 boys and 9 girls at a Grade 2 party. a. Write the number sentence to show the total number of people. b. Are the addends even or odd? c. Mrs. Boxer wants to pair everyone up for a game. Does she have the right number of people for everyone to have a partner?



- Each student will receive all the application problems in a single packet. Staple one of the
- lower corners...not the top corner.
- Each day, students will cut off the next application problem and glue into their math journal.

 $^{\rm F}$ Fluency Standard, * Major standard, $^{\rm \$}$ Supporting standard, $^{@}$ Additional standard

Lesson	Problem
1	There are 24 penguins sliding on the ice. There are 18 whales splashing in the ocean. How many more penguins than whales are there?
2	Gemma is counting animals in the park. She counts 16 robins, 19 ducks, and 17 squirrels. How many more robins and ducks did Gemma count than squirrels?
3	Number of Books Read Jose Laura IIII IIII IIIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
4	Favorite Animals Flumingo Sem Leopard Konde Berr Konde Berr K

5	Rita has 19 more pennies than Carlos. Rita has 27 pennies. How many pennies does Carlos have?
6	Sarah is saving money in her piggy bank. So far, she has 3 dimes, 1 quarter, and 8 pennies. a. How much money does Sarah have? b. How much more does she need to have a dollar?
7	Danny has 2 dimes, 1 quarter, 3 nickels, and 5 pennies. a. What is the total value of Danny's coins? b. Show two different ways that Danny might add to find the total.
8	Kiko's brother says that he will trade her 2 quarters, 4 dimes, and 2 nickels for a one dollar bill. Is this a fair trade? How do you know?
9	Clark has 3 ten dollar bills and 6 five dollar bills. He has 2 more ten dollar bills and 2 more five dollar bills than Shannon. How much money does Shannon have?
10	Andrew, Brett, and Jay all have 1 dollar in change in their pockets. They each have a different combination of coins. What coins might each boy have in his pocket?
11	Tracy has 85 cents in her change purse. She has 4 coins. Which coins are they? How much more money will Tracy need if she wants to buy a bouncy ball for \$1?
12	T: We can write 100 cents as \$1 in our number sentence. Richie has 24 cents. How much more money does he need to make \$1?
13	Dante had some money in a jar. He puts 8 nickels into the jar. Now he has 100 cents. How much money was in the jar at first?

14	Frances is moving the furniture in her bedroom. She wants to move the bookcase to the space between her bed and the wall, but she is not sure it will fit. Talk with your partner: What could Frances use as a measurement tool if she doesn't have a ruler? How could she use it? Show your thinking on your personal board using pictures, numbers, or words.
15	Edwin and Tina have the same toy truck. Edwin says his is 4 toothpicks long. Tina says hers is 12 lima beans long. How can they both be right? Work with a partner to measure your object. Partner A, measure with lima beans. Partner B, measure with toothpicks. Use words or pictures to explain how Edwin and Tina can both be right.
16	none
17	Benjamin measures his forearm and records the length as 15 inches. Then he measures his upper arm and realizes it's the same! a. How long is one of Benjamin's arms? b. What is the total length of both Benjamin's arms together?
18	Ezra is measuring things in his bedroom. He thinks his bed is about 2 yards. Is this a reasonable estimate? Explain your answer using pictures, words or numbers.
19	Katia is hanging decorative lights. The strand of lights is 46 feet long. The building wall is 84 feet long. How many more feet of lights does Katia need to buy to equal the length of the wall?
20	none
21	In order to ride the Mega Mountain rollercoaster, riders must be at least 44 inches tall. Caroline is 57 inches tall. She is 18 inches taller than Addison. How tall is Addison? How many more inches must Addison grow to ride the rollercoaster?

22	Liza, Cecilia, and D is in between then many feet is Dylan	ylan are playing soc n. If Dylan is standir n from Liza?	cer. Liza and Cecilia are 120 feet apart. Dylan ng the same distance from both girls, how
23	none		
24	Mike, Dennis, and their coins, they f They put all the pe more coins? How n	April all collected co ound they had 24 pe ennies into one cup o nany more?	vins from a parking lot. When they counted up ennies, 15 nickels, 7 dimes, and 2 quarters. nd the other coins in another. Which cup had
25	These are the type Type of Stamp Holiday Animal Birthday Famous singers Her friend Michae than birthday and If the flag stamps stamps?	es and numbers of s Number of Stamps 16 8 9 21 21 21 21 21 21 21 21 21 21 21 21 21	tamps in Shannon's stamp collection. g stamps. If he gives her 7 fewer flag stamps ther, how many flag stamps does she have? each, what is the total value of Shannon's flag
26	Judy bought an MI \$48 less than the the cashier a \$100	23 player and a set o MP3 player. How mu) bill?	of earphones. The earphones cost \$9, which is ich change should Judy get back if she gave



Lesson	Problem
1	Terrence is making shapes with 12 toothpicks. Draw 3 different shapes he could make using all of the toothpicks. How many other combinations can you find?
2	How many triangles can you find? (Hint: If you only found 10, keep looking!)
3	Three sides of a quadrilateral have the following lengths: 19 cm, 23 cm, and 26 cm. If the total distance around the shape is 86 cm, what is the length of the fourth side?
4	none
5	Owen had 90 straws to create pentagons. He created a set of 5 pentagons when he noticed a number pattern. (Draw on the board, as shown below.) How many more shapes can he add to the pattern?
6	Frank has 19 fewer cubes than Josie. Frank has 56 cubes. They want to use all of their cubes to build a tower. How many cubes will they use?
7	Mrs. Libarian's students are picking up tangram pieces. They collect 13 parallelograms, 24 large triangles, 24 small triangles, and 13 medium triangles. The rest are squares. If they collect 97 pieces in all, how many squares are there?

8	The students were making larger shapes out of triangles and squares. They put away all 72 triangles. There were still 48 squares on the carpet. How many shapes were on the carpet when they started?
9	Mr. Thompson's class raised 96 dollars for a field trip. They need to raise 120 dollars. a. How much more money do they need to raise in order to reach their goal? b. If they raise 86 more dollars, how much extra money will they have?
10	Felix is passing out raffle tickets. He passes out 98 tickets and has 57 left. How many raffle tickets did he have to start?
11	Jacob had collected 70 baseball cards. He gave half of them to his brother Sammy. How many baseball cards does Jacob have left?
12	Tugu made two pizzas for himself and his 5 friends. He wants everyone to have an equal share of the pizza. Should he cut the pizza into halves, thirds, or fourths?
13	none
14	Brownies take 45 minutes to bake. Pizza takes half an hour less than brownies to warm up. How long does pizza take to warm up?
15	At Memorial School, students have a quarter hour for morning recess and 33 minutes for a lunch break. How much free time do they have in all? How much more time for lunch than recess do they have?
16	On Saturdays, Jean may only watch cartoons for one hour. Her first cartoon lasts 14 minutes, and the second lasts 28 minutes. After a 5-minute break, Jean watches a 15-minute cartoon. How much time does Jean spend watching cartoons? Did she break her time limit?