

Cognitively Guided Instruction (CGI) Problem Types

JRU: Join Result Unknown ($4 + 5 = \underline{\quad}$)

JCU: Join Change Unknown ($4 + \underline{\quad} = 9$)

JSU: Join Start Unknown ($\underline{\quad} + 5 = 9$)

SRU: Separate Result Unknown ($6 - 2 = \underline{\quad}$)

SCU: Separate Change Unknown ($6 - \underline{\quad} = 4$)

SSU: Separate Start Unknown ($\underline{\quad} - 2 = 4$)

PPW: Part-Part Whole

CDU: Compare Difference Unknown

CGI Problem Sets

Problem Set #1

Arianna has 15 Whiz Tickets. She earned 5 Whiz Tickets this week. She needs 25 tickets to choose from the treasure basket. Does she have enough tickets to choose from the treasure basket? (Join Result Unknown and Compare)

Jacob had 4 rocks in his collection. Joshua gave him some more rocks to add to his collection. Now Jacob has 7 rocks. How many rocks did Joshua give him? (Join Change Unknown)

Roberto has some quarters. Antonio gave him 4. Now he has 9 quarters. How many quarters did he already have? (Join Start Unknown)

Sarah has 5 cookies. Raul has 12 cookies. How many more cookies does Raul have than Sarah? (Compare Difference Unknown)

Problem Set #2

Paulina has 5 rings on her fingers. She got 2 more rings on her birthday. How many rings does Paulina have now? (Join Result Unknown)

At Thanksgiving dinner, I ate 3 rolls before dinner and 2 rolls with dinner. How many rolls did I eat? (Join Result Unknown)

Kristi had 6 ornaments to put on our tree. Chad gave Kristi his ornaments to put on the tree too. There are 12 ornaments on the tree. How many ornaments did Chad give Kristi? (Join Change Unknown)

At Thanksgiving Dinner, I had 3 slices of pie. My mother had 5 slices of pie. Who ate more? How many more? (Compare Difference Unknown)

Problem Set #3

There were 5 turkeys strutting. 6 more turkeys joined them. How many turkeys are there all together? (Join Result Unknown)

Santa's elves made 5 toy cars and 6 airplanes. How many toys did they make? (Part-Part-Whole)

There were 9 reindeer on my roof. Some reindeer flew down to the ground to play in the snow. 3 reindeer remained on the roof. How many are playing in the snow? (Separate Change Unknown)

8 snowmen played in the snow. Some elves come to play with them. Now there are 10 playing in the snow. How many elves are there? (Join Change Unknown)

Problem Set #4

There are 3 turkeys in a tree. 4 more turkeys came to the tree. How many turkeys are in the tree now? (Join Result Unknown)

There are some turkeys in the tree. 4 more turkeys came to the tree. Now there are 7 turkeys in the tree. How many turkeys were on the tree at first? (Join Start Unknown)

The pilgrims had some pies. They gave 6 pies to their friends the 1st Americans. Now they have 4 pies. How many pies did they have to begin with? (Separate Start Unknown)

Problem Set #5

Debbie has 4 pieces of bubble gum. Dan gave her 3 more pieces. How many does she have now? (Join Result Unknown)

Mary has 6 nickels in her pocket. She lost some. Now she has 2 nickels left. How many did she lose? (Separate Change Unknown)

Sofia had some cookies in her lunchbox. She gave 3 cookies to Eydie. Now she has 6 cookies left. How many cookies did she have to start? (Separate Start Unknown)

Katie ran 3 miles on Monday. She ran 2 miles on Tuesday. How many miles did she run altogether? (Part-part-whole)

Marc had 7 toy cars. He gave 1 to Tom. How many did he have left? (Separate Result Unknown)

Problem Set #6

There was one flower in the garden. Two more flowers grew. How many flowers are in the garden? (Join Result Unknown)

Billy had 3 blocks. He lost 1 block. How many does he have left? (Separate Result Unknown)

Carlos had 5 cookies. He ate some. Now he has 2 cookies. How many cookies did he eat? (Separate Change Unknown)

Maria has 4 books. Anna has 3 books. How many more books does Maria have than Anna? (Compare difference unknown)

Problem Set #7

Alexandra has some pattern blocks. She picks up 2 more. How many does she have in all? (Join Result Unknown)

Ho has 3 balls. His teacher gave him 1 more. How many balls does he have in all? (Join Result Unknown)

Ina had 5 chocolate milks. She drank 2. How many does she have now? (Separate Result Unknown)

Dylan has 5 pencils. He drops 2. How many does he have left? (Separate Result Unknown)

Problem Set #8

Diego had 10 seashells in his pocket. He gave 5 seashells to his little sister. How many seashells are left in his pocket? (Separate Result Unknown)

Samuel has 9 gumballs. He gives some to Matthew. Now he has 5 gumballs. How many gumballs did he give to Matthew? (Separate Change Unknown)

Nate put 6 cars in a box. His friend added some more cars to the box. Now there are 9 cars in the box. How many cars did his friend add to the box? (Join Change Unknown)

Five children are painting. Two more came to join in. How many children are painting? (Join Result Unknown)

Problem Set #9

3 children are reading books on the carpet. 2 more came to join in. How many children are now reading books? (Join Result Unknown)

6 children were eating crackers. 4 more children join in. How many children are eating crackers? (Join Result Unknown)

5 children are in line for recess. 2 children leave the line to use the restroom. How many children are left in line for recess? (Separate Result Unknown)

4 children are working at the computers. 1 child went to the nurse. How many children are still working on the computers? (Separate Result Unknown)

Problem Set #10

Today is October 25th. How many days until Halloween? (use calendar as a manipulative) (Join Change Unknown)

We have 6 small, 6 medium, and 6 large pumpkins. How many pumpkins do we have? (Part-part-whole)

Yesterday was the 49th day of school. How many days have we been in school? (Join Result Unknown)

18 people are eating lunch. 7 people are buying lunch. How many people brought cold lunch? (Join Change Unknown)

Problem Set #11

3 children are playing in the sandbox. 2 more children go in the sandbox. How many kids are in the sandbox now? (Join Result Unknown)

6 kids picked pizza and 2 kids picked hot dogs. How many more kids picked pizza? (Compare Difference Unknown)

Jesus has animal crackers. Brittney gave him 5 more. Now he has 10 animal crackers. How many did Jesus have to start with? (Join Start Unknown)

Victoria had 5 Dragon Dollars. She used 3 to buy a prize. How many Dragon Dollars does she have left? (Separate Results Unknown)

Problem Set #12

Irene has 5 juice boxes. Her mom brings Irene 5 more. How many does Irene have now? (Join Result Unknown)

There are 6 chairs at your table. There are 5 kids at your table. How many empty chairs are there? (Compare Difference Unknown)

You have 3 cows. You have 3 kids. Which group has more legs? How many more? (Compare Difference Unknown)

There are 5 apples in a tree. Some fell out of the tree. Now there are 3 left in the tree. How many fell out of the tree? (Separate Change Unknown)

Problem Set #13

Jordan went to the fair. She won 7 beta fish. She gave 2 fish to her teacher. How many fish does Jordan have left? (Separate Result Unknown)

Wardo has cats and lizards. He has 6 pets altogether. 4 of his pets are cats. How many lizards does Wardo have? (Part-part-whole)

Problem Set #14

Jesus had 3 dinosaurs. Haley had 5 dinosaurs. How many did they have together? (Part-part-whole)

Four Pooh Pals were on the playground. Two busy bees joined them. How many kindergarteners are playing? (Join Result Unknown)

Tammy has four dogs. Two went outside. How many stayed inside? (Separate Result Unknown)

Problem Set #15

Sara brought 3 cupcakes. Marsha brought 4 cupcakes. How many cupcakes did they have all together? (Part-part-whole)

There are 9 children in Mrs. Clark's class. 3 are absent. How many are in class today? (Separate Result Unknown)

Problem Set #16

John-john has 3 dolls. His mom gave him 7 trucks. How many more trucks does John-John have than dolls? (Compare difference unknown)

Karen has 6 crayons. Darin added some more crayons. Now Karen has 15 crayons. How many crayons did Darin add? (Join Change Unknown)

Problem Set #17

Ms. Smith's class has 4 balls. Mrs. Brown's class has 3 balls. Which class has more balls? How many more? (Compare Difference Unknown)

Five apples fell off the tree. A squirrel took two apples. How many apples are left on the ground? (Separate Result Unknown)

2 pumpkins are sitting on a fence. 2 more are placed on the fence. How many pumpkins are on the fence now? (Join Result Unknown)

There are 3 horses in the corral. 6 more come along. How many are there all together? (Join Result Unknown)

Problem Set #18

Vanessa has 2 books. She chose 3 more books. How many books does she have now? (Join Result Unknown)

EunJin has 9 lowfat Goldfish crackers. She ate 5 of them. How many Goldfish does she have now? (Separate Result Unknown)

Erik had some toy cars. His friend gave him 4 more. Now he has 12 altogether. How many cars did he have to start with? (Join Start Unknown)

Problem Set #19

Jill had 3 marbles. Someone gave her 2 more. How many does Jill have now? (Join Result Unknown)

Josue has 5 cars. More cars were given to him. Now he has 10. How many were given to him? (Join Change Unknown)

Some cookies were on the table. Six more were placed on the table. Now there are nine. How many were on the table in the beginning? (Join Start Unknown)

Problem Set #20

Jane picked 7 apples and put them in the basket. Juan picked some apples and put them in the basket. Now there are 10 apples in the basket. How many apples did Juan pick? (Join Change Unknown)

Some children were reading in the Library. 4 children left. Now there are 6 children reading in the library. How many children were reading in the library to begin with? (Separate Start Unknown)

Sergio had 10 Pokemon Card. Joey had 5 Pokemon Cards. How many more pokemon cards does Sergio have? (Compare Difference Unknown)

Problem Set #21

There were 6 kids on the playground. Some kids went to the nurse's office. Now there are 2. How many kids went to the nurse? (Separate Change Unknown)

Mary had 4 pencils. She bought 3 more. How many pencils does Mary have now? (Join Result Unknown)

Sam has 2 dogs. Mark has 6 dogs. How many more dogs does Mark have than Sam? (Compare Difference Unknown)

Problem Set #22

Jack has 3 cookies. Mary gave him 4 more. How many cookies does Jack have now? (Join Result Unknown)

Jack has 3 cookies. Mary gave him some more. Now Jack has 7 cookies. How many did Mary give him? (Join Change Unknown)

Jack has some bookies. Mary gave him 3 more. Now Jack has 7 cookies. How many cookies did Mary give him? (Join Start Unknown)

Problem Set #23

Joe had some candies. He went trick-or-treating and got 10 more candies. Now he has 18 candies. How many candies did he have to start with? (Join Start Unknown)

We had 15 kids in our room on the 1st day of school. Now we have 18 kids. How many new kids came? (Join Change Unknown)

10 children want baked chicken. 8 children want chicken nuggets. How many kids want school lunch? (Part-Part-Whole)

Problem Set #24

6 kids are getting a bag. 3 kids are getting a tray. How many kids will have hot lunch? (Part-Part-Whole)

5 teddy bears came to breakfast, each teddy bear ate 2 pancakes. How many pancakes did the teddy bears eat altogether? (Join Result Unknown, Multiplication)

Orlando has 5 pumpkins. Erica has 9 pumpkins. How many more does Erika have? (Compare Difference Unknown)

Problem Set #25

Sally had 3 chocolate chip cookies. She baked 7 more. How many does she have now? (JRU)

Michael has 5 hot wheels. Bobby gave him some more. Now he has 10. How many hot wheels did Bobby give Michael? (JCU)

Loretta planted some flower seeds. She went to the store and bought 4 more seeds. Now she has 10 seeds altogether. How many seeds did she start with? (JSU)

Johnny had 10 crayons. Rebecca broke two crayons. How many crayons does Johnny have now? (SRU)

There were 10 children in the cafeteria. Some got sick. Now there are 3 children left in the cafeteria. How many went to the nurse's office? (SCU)

Dudley had some treats. He ate 9 of them. Now he has 1 left. How many treats did he begin with? (SSU)

Problem Set #26

Our class has 8 girls and 10 boys. How many students are in our class? (PPW)

We have 17 kids in our class. A new student joined our class. How many students are in our class now? (JRU)

This morning 14 children were here for the pledge. At lunch 18 children ate. How many children came late? (JCU)

Our class had some snacks. Robin brought in 5 more snacks. Now we have 18. How many snacks did we start with? (JSU)

We have 19 children in our class. Four kids went to speech class. How many kids are left? (SRU)

There are 18 kids in our class. Some went to the nurse. Now there are 15 left. How many went to the nurse? (SCU)

Mrs. McMillan has a kinder class. She sent 5 children to the specialist. She now has 13 children in class. How many did she start with? (SSU)

Mrs. McMillan has 18 kids in her class. Mrs. Kunk has 25. How many more students does Mrs. Kunk have? (CDU)

Problem Set #27

Melissa has 5 M&Ms. She grabbed 6 M&Ms. How many does she have altogether? (JRU - $5 + 6 = \underline{\quad}$)

Liz had 5 M&Ms. She grabbed some more M&Ms. Now Liz has 11 M&Ms. How many did she grab? (JCU – $5 + \underline{\quad} = 11$)

Elizabeth had some M&Ms. She grabbed 6 from Melissa. Now she has 11 M&Ms all together. How many M&Ms did she have to begin with? (JSU - $\underline{\quad} + 6 = 11$)

Melissa had 11 fish. She gave 5 fish to another class. How many fish were left? (SRU – $11 - 5 = \underline{\quad}$)

Liz had 11 fish. She gave some fish to another class. Now there are 6 fish left in the tank. How many did she give away? (SCU – $11 - \underline{\quad} = 6$)

Elizabeth has some fish. She gave 5 to another class. Now there are 6 left in her tank. How many fish did she have to start with? (SSU - $\underline{\quad} - 5 = 6$)

Problem Set #28

Claudia had 6 mushrooms growing under her tree. There were 3 more after the rain. How many mushrooms are there altogether? (JRU)

Luis had 6 balls. His sister gave him some more balls. Now Luis has 15 balls. How many balls did his sister give him? (JCU)

Amy had some cookies. She bought 4 cookies at the store. Now she has 10 cookies. How many cookies did she start with? (JSU)

There were 10 monkeys playing at the zoo. There were 3 climbing on a tree. How many were not on the tree? (SRU)

There were 8 books on the table. Someone took some books from the table. Now there are 3 books on the table. How many were taken? (SCU)

Anissa has some fish. 2 of the fish died. Now there are 6 fish. How many fish did she have at first? (SSU)

Problem Set #29

Mary had 3 friends when she started school. She makes 5 more friends at school. How many friends does she have now? (JRU)

Jake had 3 bugs in his bug box. Roman gave him some more. Now he has 9 bugs. How many did Roman give him? (JCU)

Jake had some bugs in his bug box. Roman gave him 6 bugs. He now has 10 bugs. How many bugs did Jake start with? (JSU)

Addison had 5 crackers for snack. She gave 2 to Edith. How many crackers did Addison have left? (SRU)

Tiair had some crayons. She loaned Rune 3 crayons for his project. Now she has 4 crayons. How many did she start with? (SSU)

There were 6 children on the climbing wall. Some children went to the nurse. Now there are 3 children on the climbing wall. How many went to the nurse? (SCU)

Problem Set #30

Tom had 5 marbles. His friend gave him 3 more. How many marbles does Tom now have? (JRU)

Mary had 2 balloons. Her friend gave her some more. Now Mary has 6 balloons. How many more balloons did her friend give her? (JCU)

Some ducks were swimming in a pond. Two more came. Now there are 7 ducks swimming. How many ducks were swimming before the others came? (JSU)

Problem Set #31

Rayven has 3 red bears. She found 2 blue bears. How many bears does she have now? (JRU)

Billy has 5 apples in his basket. Suzy gave him some more apples. Now he has 8 apples. How many apples did Suzy give Billy? (JCU)

Our class has many pumpkins. Janet brought 4 more this morning. Now we have 10 pumpkins. How many did we have before Janet added her pumpkins? (JSU)

There were 8 red monsters and 2 went home. How many monsters are left? (SRU)

There were 7 green monsters. After the lights went out, there were only 2! How many are under the bed? (SCU)

Mary had some peanuts. She ate 7 and now she has 5. How many peanuts did she have at the beginning? (SSU)

Echo has 10 stickers and Precious has 6. How many more stickers does Echo have? (CDU)

Problem Set #32

Joe had 4 pumpkins. He picked 3 more pumpkins. How many does he have now? (JRU)

Joe had 4 pumpkins. Susan gave him some more. He has 7 now. How many did Susan give him? (JCU)

Joe had some pumpkins. He went to the pumpkin patch and picked 3 more. Now he has 7 all together. How many pumpkins did he start with? (JSU)

There were 6 kids on the monkey bars. 3 kids went to the nurse with blisters. How many kids were left? (SRU)

There were 6 kids on the monkey bars. Some kids got off. Now there are 3 kids on the monkey bars. How many went to the nurse? (SCU)

Problem Set #33

Joey has 3 pumpkins. He picks 2 more. How many pumpkins does he have now? (JRU)

Kate has 2 apples. Kyle gave her some more apples. Now Kate has 5 apples. How many apples did Kyle give her? (JCU)

Mary had some pennies. She found 3. Now she has 5. How many pennies did she start with? (JSU)

There were 6 kindergarteners in the library. Some went back to the room. Now there are 4 in the library. How many kinders went back to the room? (SRU)

Problem Set #34

Kate has 3 crackers. She got 4 more crackers. How many crackers does Kate have now? (JRU)

Julián had 4 cars. His wife bought him some more cars. Now Julián has 6 cars. How many cars did his wife give him? (JCU)

Yvette had some recipe books. She went to the bookstore and got 5 more books. Now she has 10 recipe books all together. How many recipe books did she start with? (JSU)

Alma had some dolls. She gave 2 to her friend. She has 5 now. How many dolls did she start with? (SSU)

Problem Set #35

There are 3 ghosts in the Haunted House. 2 ghosts fly in the window. How many ghosts are in the Haunted House? (JRU)

Charlie Brown has 2 pumpkins in his Pumpkin Patch. Lucy brings him some more. Now Charlie Brown has 6 pumpkins. How many pumpkins did Lucy give him? (JCU)

Fred had some Trick or Treat candy. He went to the next house and got 3 pieces. Now he has 7 pieces. How many pieces did Fred have to start with? (JSU)

There were 6 witches stirring the brew. 3 flew away. How many are still stirring the brew? (SRU)

There were 6 Trick or Treaters in line at the door. Some got their candy and left. There are 2 still saying Trick or Treat. How many already got their candy? (SCU)

Alexis has 9 candy corns. Jacob has 3 candy corns. How many more candy corns does Alexis have than Jacob? (CDU)

Problem Set #36

John has 3 marbles. He gets 5 more from his dad. How many marbles does John have now? (Join Result Unknown)

Emily has 13 dolls. She gets 8 more from her friend. How many dolls does Emily have in all? (Join Result Unknown)

Tim had some baseball cards. He got 6 more. Now he has 15 baseball cards. How many baseball cards did he start with? (Join Start Unknown)

Savannah has some Bratz in her backpack. Karolina gave her 9 more. Now she has 25 Bratz. How many Bratz did she have in her backpack? (Join Start Unknown)

Problem Set #37

Juan has 6 crayons in his box. The teacher gives him 3 more crayons. How many crayons does he have now? (Join Result Unknown)

There were 8 bikes on the playground. 4 bikes were being used. How many bikes are left to play with? (Separate Result Unknown)

Jasmine has 4 candies. Isaiah has 9 candies. How many more candies does Isaiah have than Jasmine? (Compare Difference Unknown)

Gabriel has 2 pencils. Robert gave him 8 more. How many pencils does he have in all? (Join Result Unknown)

Problem Set #38

Joe had 10 grapes. June has 5 grapes. How many grapes do they have together? (Part-Part Whole)

We have 15 grapes in all. Jack loves grapes and eats most of them. Now he has 5 grapes. How many grapes did Jack eat? (Separate Change Unknown)

John brought 5 bananas and gave 1 to Jed. How many does John have now? (Separate Result Unknown)

We have 4 bananas and 10 grapes. How many more grapes do we have? (Compare Difference Unknown)

Problem Set #39

Calista had 5 cookies. Sabrina had 4 cookies. How many do they have altogether? (Part-Part-Whole)

Now Anthony brought some cookies. There are 14 cookies. How many did he bring? (Join Result Unknown)

Then, Salvador ate 5 cookies. How many are left? (Separate Result Unknown)

Finally, Angel ate some cookies. There are 6 cookies left. How many did he eat? (Separate Change Unknown)

Problem Set #40

There are 18 children in the classroom and 3 chose pizza. The other lunch choice is chicken nuggets. How many more children chose chicken nuggets? (Part-Part Whole – Part Unknown and Compare Difference Unknown)

Carlos has 3 cars. Steven has 5 cars. How many cars do they have altogether? (Part-Part-Whole)

We planted 10 daffodil bulbs. Some were eaten by giants. Only 3 bloomed. How many were devoured? (Separate Change Unknown)

Our table has 4 people. Their table has 6 people. How many more do they have? (Compare Difference Unknown)

Problem Set #41

Kevin brought in 4 cupcakes. Michelle brought in 3 pieces of pie. How many treats were brought in? (Part-Part-Whole)

Megan has some pretzels. She gave 7 to Sara, now she has 12. How many pretzels did Megan start with? (Separate Start Unknown)

Mary has 6 pencils. Jhonny has 4 pencils. How many more pencils does Mary have? (Compare Difference Unknown)

Paul had 3 toy trucks. Chris gave him some more and now Paul has 11. How many did Chris give him? (Join Change Unknown)

Problem Set #42

Rebecca had 6 strawberries. She picked 2 more. How many strawberries does Rebecca have now? (Join Result Unknown)

There were 5 starfish on a rock. Two starfish moved away. How many starfish are still on the rock? (Separate Result Unknown)

Amy has 10 beans. Terri has 12 beans. How many more beans does Terri have than Amy? (Compare Difference Unknown)

Marcy has 3 dogs and 2 cats. How many animals does she have? (Part-Part-Whole)

Problem Set #43

Evan has 3 Scooby Doo stickers. His mom bought him 4 more. How many stickers does he have altogether? (Join Result Unknown)

Walker brought 4 cookies for a snack. Abby brought 3 cookies for a snack. How many cookies do they have altogether? (Part-Part-Whole)

Hannah is playing with 7 blocks. She puts 3 away. How many blocks are left? (Separate Result Unknown)

Rachel had 7 crayons. She gave 4 away. How many crayons does she have left? (Separate Result Unknown)

Problem Set #44

Clarissa has 3 apples. Franciso gave her 4 apples. Tori gave her 2 apples. How many apples does Clarissa have in all? (Join Result Unknown)

There were 7 students in the computer lab. Some students left. Now there are 4 students in the computer lab. How many students left the lab? (Separate Change Unknown)

Savannah has 7 rocks in her rock collection. Ramon has 4 rocks in his collection. How many more rocks does Savannah have? (Compare Difference Unknown)

Marko collected some rocks in the desert for his class science unit. He gave 7 to Sebastian. How he only has 9 rocks left. How many rocks did he collect in the desert? (Separate Start Unknown)

Problem Set #45

Hussein had 2 pencils. He got 7 more pencils. How many pencils does Hussein have now? (Join Result Unknown)

Ten students were on the playground. Some went inside. Now there are three students on the playground. How many students went inside? (Separate Change Unknown)

Mariah has 5 books. Juanita has 12 books. How many more books does Juanita have? (Compare Difference Unknown)

Kenny has 15 coins. 5 are pennies. The rest are nickels. How many nickels does Kenny have? (Part-Part-Whole, Part Unknown)

Problem Set #46

Misha had four pet turtles. Chris has three snakes. How many pets did the two friends have together? (Part-Part-Whole, Whole unknown)

Mrs. Jackson's 1st grade had 8 lizards (in a habitat). Tyler discovered 3 in his desk. How many were left in the habitat? (Separate Result Unknown)

Sara has some M&Ms, she gave 9 to her sister. She has 4 left. How many did she have to start? (Separate Start Unknown)

Fabian had 15 cents, Corbin gave him more money. Fabian now has 20 cents. How much did Corbin give Fabian? (Join Change Unknown)

Problem Set #47

Our class had some books in a basket. 4 children picked out books from the basket. Now there are 3 books left in the basket. How many books were in the basket to start with? (Separate Start Unknown)

There are 7 students at the art center. Some students finished their work and left. Now there are 4 children at the center. How many finished their work? (Separate Change Unknown)

Tom has 4 pencils. Sam has 8. How many more does Sam have than Tom? (Compare Difference Unknown)

Celina has 9 valentines. 7 are in English and the rest are in Spanish. How many Spanish valentines does Celina have? (Part-Part-Whole, Part Unknown)

Sara has 6 marbles. How many more does she need to make 10? (Join Change Unknown)

Problem Set #48

Marissa has 5 rocks. She gets 3 more rocks. How many rocks does she have now? (Join Result Unknown)

Al has 13 green apples. How many more apples does he need to make 20? (Join Change Unknown)

Jill has 10 stickers. Jack has 6 stickers. How many more stickers does Jill have than Jack? (Compare Difference Unknown)

Mom has 2 grocery bags in her hand and 4 more in the car. How many grocery bags does she have? (Join Result Unknown)

Problem Set #49

Juan has 6 grapes. Julie has 2 grapes. How many grapes do they have altogether? (Part-Part-Whole, Whole unknown)

7 boys were playing on the slide. 2 boys left to play ball. How many boys are on the slide? (Separate Result Unknown)

Matt had three red pencils. Lisa has 8 red pencils. How many more red pencils does Lisa have than Matt? (Compare Difference Unknown)

Tom counted 5 trucks and 6 cars. How many did Tom count? (Part-Part-Whole, Whole Unknown)

Jerry is holding 13 balloons. Some popped. Jerry now has 7 balloons. How many popped? (Separate Change Unknown)

Problem Set #50

Ricky had 5 marshmallows. Sara gave him some more. Now Ricky has 9. How many marshmallows did Sara give him? (Join Change Unknown)

There are 7 students in the office. Some students returned to class. Now there are 3 students in the office. How many students returned to class? (Separate Change Unknown)

Ten kids like apples, six kids like bananas. How many more kids like apples than bananas? (Compare Difference Unknown)

In science, we observed 3 garlic bulbs growing, no potatoes growing, and 5 Brassica plants growing. How many plants does our class have that are growing? (Join Result Unknown)

Problem Set #51

Carlos had 6 stars today. The teacher gave him 8 more stars. How many stars does he have now? (Join Result Unknown)

Luis has 8 Valentine cards. How many more cards does he need to make to have 17 cards? (Join Change Unknown)

Carlos has 14 cars. Luis has 5 cars. How many more cars does Carlos have? (Compare Difference Unknown)

Alicia had 15 chocolates. She ate some. Now she has 9 chocolates. How many chocolates did Alicia eat? (Separate Change Unknown)

Problem Set #52

My mom baked 10 cupcakes. I baked only 6. How many more cupcakes did my mom bake? (Compare Difference Unknown)

Sara had 13 goldfish, she gave 7 away. How many goldfish does she have left? (Separate Result Unknown)

Garrick has 9 M&Ms. Marie has some snickers. If they have 15 candies altogether, how many Snickers does Marie have? (Part-Part-Whole, Part Unknown)

Billy had 6 hamsters. He went on vacation and when he returned he found he had 2 new baby hamsters. How many does he now have? (Join Result Unknown)

Problem Set #53

Charlie has 6 guitars. He wants the entire Les Paul Collection of 12 guitars. Unfortunately, he is a teacher and a musician and has no money. But in his dreams, how many more guitars does poor Charlie need? (Join Change Unknown)

Sheree had 15 Godiva chocolate covered strawberries. She went to visit Melissa at her home in Ventana Canyon. When Sherree returned, she had only 7 left. How many did sneaky Melissa eat? (Separate Change Unknown)

Clifford has 13 bones and Rover only has 6 bones. How many more bones does Clifford have? (Compare Difference Unknown)

Curious George has 4 nickel and 7 pennies. How many coins does he have? (Part-Part-Whole, Whole Unknown)

Problem Set #54

Lizzie has 6 valentines. Brad gave her 5 more. How many valentines does Lizzie have now? (Join Result Unknown)

Sally has 6 dolls. She received some more for her birthday. Now she has 15. How many did she get for her birthday? (Join Change Unknown)

Tim has 11 cars. John has 5. How many more cars does time have than John? (Compare Difference Unknown)

Kirsten has 15 cupcakes for the party. She gave 8 to her friends. How many cupcakes does she have now? (Separate Result Unknown)

Problem Set #55

Gina has 5 toys left. She gave Caleb 4 toys. How many toys did she have to begin with? (Separate Start Unknown)

Celine has 8 bracelets. Jessica has 5 bracelets. How many more bracelets does Celine have than Jessica? (Compare Difference Unknown)

Kevin had 13 lollipops. He shared some lollipops with his friends. Now he has only 5 lollipops left. How many lollipops did he share? (Separate Change Unknown)

Jerry had some dogs. He went to the pet shop and got 3 more. Now he has 11 dogs. How many dogs did he have to start with? (Join Start Unknown)

Problem Set #56

Carlos has 6 baseball cards. Alan has 9 baseball cards. How many more cards does Alan have than Carlos? (Compare Difference Unknown)

Makayla has 5 candy hearts. She ate 5. YUM! How many hearts does she have left? (Separate Result Unknown)

Pat had 9 puppies. She now has 4 puppies. How many got adopted? (Separate Change Unknown)

Julie has 6 stuffed animals. How many more stuffed animals does she need to have 11? (Join Change Unknown)

Problem Set #57

Sarah had 7 candy bars. She gave 3 away. How many does she have now? (Separate Result Unknown)

Nick has 3 dogs. Kelly has 5 dogs. How many dogs do they have altogether? (Part-Part-Whole, Whole Unknown)

Grace has 14 pencils. Nadia has 9 pencils. How many less pencils does Nadia have than Grace? (Compare Difference Unknown)

Lena has 5 M&Ms. How many more M&Ms does she need to have 12? (Join Change Unknown)

Problem Set #58

George has 6 video games. He lends 2 of his games to Joey. How many games does George have now? (Separate Result Unknown)

Alex has 8 stars. Kevin has 12 stars. How many more stars does Kevin have than Alex? (Compare Difference Unknown)

There were 5 children playing in the park. 2 children had to go home. How many children were still playing in the park? (Separate Result Unknown)

Sabrina had 10 M&Ms. She ate some. Now she has 4 M&Ms. How many M&Ms did she eat? (Separate Change Unknown)

Problem Set #59

Sam had 7 fish in his fish tank. His mom bought him some more fish. Now he has 15 fish in his tank. How many fish did his mom give him? (Join change Unknown)

Cindy baked some cookies. Later, she baked 12 more cookies. Now she has 18 cookies for her friends. How many cookies did she bake the first time? (Join Start Unknown)

There are 19 students in the class. Some did not go on the field trip. 14 students went on the field trip. How many students did not go? (Separate Change Unknown)

Problem Set #60

John has 4 black rocks and he found 8 red rocks. How many rocks does John have now? (Join Result Unknown)

Asia had 6 basalt rocks and Mia has 11 Tuff rocks. How many more rocks does Mia have? (Compare Difference Unknown)

Maria has 12 rocks. She lost some. Now she has 7 rocks. How many did she lose? (Separate change Unknown)

Zan has 10 brassica seeds and 5 alfalfa seeds. How many seeds does he have? (Part-Part-Whole, Whole Unknown)

Problem Set #61

Joe has 9 inches of red licorice. Norma has 5 inches of black licorice. How many inches do they have altogether? (Part-Part-Whole, Whole Unknown)

Alice has 3 pennies. Linda gave Alice some pennies. Alice has 10 pennies. How many pennies did Linda give Alice? (Join Change Unknown)

There were 4 boys swimming. 2 boys swam away. How many boys are still swimming? (Separate Result Unknown)

Judy has 3 Valentines. Connie has 6 Valentines. How many more valentines does Connie have than Judy? (Compare Difference Unknown)

Problem Set #62

Juan has 14 crayons and Maria has 6 crayons. How many more crayons does Juan have than Maria? (Compare Difference Unknown)

Gabriela has 8 marbles; her brother Bernardo had 5 marbles. How many did they have altogether? (Part-Part-Whole, Whole Unknown)

Jesus brought 9 cookies to school. He gave 4 to his friend Tony. How many cookies does he have left? (Separate Result Unknown)

Kevin had 11 pennies. He lost some of them and only has 5 left. How many pennies did he lose? (Separate Change Unknown)

Problem Set #63

Jesus has 5 cars. How many more cars does he need to collect to have 12 cars altogether? (Join Change Unknown)

Bianca has 10 valentines. She gave 4 valentines to her friends. How many valentines does she have left? (Separate Result Unknown)

Vivianna has 8 cookies. She ate some. Now she has 2 cookies. How many cookies did she eat? (Separate Change Unknown)

Kyler lost 3 teeth. Emmett lost 2 teeth. How many more teeth has Kyler lost than Emmett? (Compare Difference Unknown)

Problem Set #64

Joseph needs 10 cars to fill his collection. He has 6. How many more does he need? (Join Change Unknown)

Alyssa has 4 cookies. Jazmine gives her 5 more. How many does she have now? (Join Result Unknown)

Robin has 10 erasers. Joe has 4 erasers. How many more does Robin have? (Compare Difference Unknown)

James has 4 chocolate cookies, 6 peanut butter cookies and 2 sugar cookies. How many does he have altogether? (Part-Part-Whole, Whole Unknown)

Problem Set #65

Paul had 3 fish. Tom has 8 fish. How many do they have together? (Part-Part-Whole, Whole Unknown)

Juan had 10 pencils. He gave 3 away to his friend. How many pencils does Juan have now? (Separate Result Unknown)

Sally has seven erasers. Andrea has five erasers. How many more erasers does Sally have than Andrea? (Compare Difference Unknown)

Pedro has nine green marbles and three blue marbles. How many marbles does Pedro have? (Part-Part-Whole, Whole Unknown)

Problem Set #66

J.D. has 5 hot cheetos and Hannah has 7 hot cheetos. How many hot cheetos do they have all together? (Part-Part-Whole, Whole Unknown)

There were 9 erasers. Some were given away. There are 4 left. How many erasers were given away? (Separate Change Unknown)

Steve had 11 M&Ms. Gladys had 7 M&Ms. How many more M&Ms does Steve have than Gladys? (Compare Difference Unknown)

Jose has 7 lava rocks and 5 geodes (crystals). How many rocks does he have? (Part-Part-Whole, Whole Unknown)

Problem Set #67

Jesus found 8 shells at the beach and Esmeralda found 3 shells. How many more shells did Jesus find than Esmeralda? (Compare Difference Unknown)

Tara got 4 valentines on Tuesday and 11 more on Wednesday. How many valentines did she get altogether? (Join Result Unknown)

Maria found some marbles. She got 7 more. She had 12 marbles altogether. How many did she find? (Join Start Unknown)

Nick brought 11 cookies. Tony ate 5 cookies. How many cookies did Nick have left? (Separate Result Unknown)

Problem Set #68

There are 7 boys and 8 girls in our class. How many Valentines do you need to make all together? (Join Result Unknown)

There were 15 students in class. Some students were absent. Now there are 11 students in class. How many students are absent? (Separate Change Unknown)

Trish has 5 Valentines. John has 9 Valentines. How many more Valentines does John have than Trish? (Compare Difference Unknown)

Raul has 15 snacks. Six of his snacks are cookies and the rest are cupcakes. How many cupcakes does Raul have? (Part-Part-Whole, Part Unknown)

Problem Set #69

Clara had 15 bandanas. Marcus gave her some more for our class round-up. Now Clara has 22 bandanas. How many bandanas did Marcus give her? (Join Change Unknown)

Joe has 8 books. 4 books are fiction. The rest are nonfiction. How many nonfiction books does Joe have? (Part-Part-Whole, Part Unknown)

You have 8 pennies. I have 2 nickels. Who has more? How much more? Explain. (Compare Difference Unknown)

On our field trip to the Rock Museum, we bought some rocks. We gave 10 to Mrs. Jaramillo's class. Now we have 30 rocks. How many rocks did we buy? (Separate Start Unknown)

Problem Set #70

Alex had 12 pieces of pizza. This was a whole pizza. Anthony has 7 pieces of pizza. How many more does he need to make a whole? (Compare Difference Unknown)

Mrs. Clark has 18 children in her class. Mrs. Verdin has 13 children. How many more does Mrs. Clark have than Mrs. Verdin? (Compare Difference Unknown)

Jesus has 9 seeds and planted 5. How many does Jesus have to plant now? (Separate Result Unknown)

Ashley bought 5 pieces of gum. Her friend gave her 5 more. How many does she have now? (Join Result Unknown)

Problem Set #71

Ann had 6 wheat seeds. Jorge had 7 oat seeds. How many plants will there be in all? (Part-Part-Whole, Whole Unknown)

Don has 8 seeds. He planted some of the seeds. Now he has 5 seeds left. How many did he plant? (Separate Change Unknown)

Janessa has 4 bean plants. How many more bean plants does she need to have 15 all together? (Join Change Unknown)

Michelle has 14 seeds. Adrianna has 7 seeds. How many more seeds does Michelle have than Adrianna? (Compare Difference Unknown)

Problem Set #72

Luis has 5 dinosaurs. Christina has 3 dinosaurs. How many more dinosaurs does Luis have than Christina? (Compare Difference Unknown)

10 children are playing outside. Some go to the bathroom. 4 are still playing outside. How many went to the bathroom? (Separate Change Unknown)

Julie has 3 marbles and 4 jacks. How many toys does she have now? (Part-Part-Whole, Whole Unknown)

Kathy has some pretzels. She bought two. Now she has 8. How many did she start with? (Join Start Unknown)

CGI Problem Types

JOIN	<p>Result Unknown Bob has 2,345 marbles. His brother gave him 3,455 more. How many marbles does Bob have now?</p>	<p>Change Unknown Gloria has 52 erasers. Sam gave her some more. Now Gloria has 89 erasers. How many did Sam give her?</p>	<p>Start Unknown Cindy made some money from babysitting. She already had \$25.25 from her birthday. Now she has \$48.75. How much did she make babysitting?</p>
SEPARATE	<p>Result Unknown Douglas had 11,236 marbles in his collection. He gave 4,459 to his brother. How many marbles did Douglas have in his collection?</p>	<p>Change Unknown Derek had \$539.46. He bought some school clothes. Then he had \$201.98 left. How much money did Derek spend on clothes?</p>	<p>Start Unknown Daniel had some cookies. He gave $15\frac{1}{4}$ to Douglas, then he had $8\frac{1}{2}$ left. How many cookies did Daniel have to start with?</p>
PART-PART	<p>Whole Unknown Annie owns $6\frac{1}{8}$ acres of raisin crops, and $4\frac{3}{4}$ acres of corn crops. How many acres does Annie own?</p>		<p>Part Unknown Cheryl has \$22.19 in her piggy bank. She has \$1.29 in pennies, \$4.35 in nickels, \$3.80 in dimes and the rest are quarters. How much money does she have in quarters?</p>
COMPARE	<p>Difference Unknown David had 527 PlayStation games. Rob had 489 PlayStation games. How many more PlayStation games does David have than Rob?</p>	<p>Compare Set Unknown</p>	<p>Referent Set Unknown</p>
GROUPING	<p>Multiplication Johan has 450 boxes of books. There are 5 books in each box. How many books does Johan have?</p>	<p>Measurement Division Sue has 236 mice. She puts 3 mice in each cage. How many cages does she need?</p>	<p>Partitive Division Lisa has 2,389 marbles. She puts them in 3 groups. How many are in each group?</p>