



Set 1

1. There are 28 people coming to Paul's birthday party. Should Paul tell his mom there are **about** 20 people coming to his party or **about** 30 people coming to his party? Please choose an answer and explain why that would be the best answer.
2. Paul had 12 baseball cards in his room. His mom bought him a new pack of cards. There are 10 cards in each pack. How many cards does Paul have now?
3. After playing with his cards, Paul went to eat breakfast. He opened the carton of eggs and found 7 brown eggs and 4 white eggs. How many eggs did Paul have in the carton?
4. Paul's dad took him to school. In his class there are 15 girls and 14 boys. How many students are in Paul's class?
5. At recess Paul played basketball on the same team as John and Jose. Paul scored 8 points, John scored 6 points, and Jose scored 12 points. How many points did Paul's team score altogether?
6. For homework Paul had to read 8 pages each night. He read 8 pages on Monday, 8 pages on Tuesday, 8 pages on Wednesday, and 8 pages on Thursday. How many pages did Paul read this week?
7. The next day at school Paul saw a pattern of numbers: 17, 15, 13, 11, 9, ____, ____
Are the numbers getting bigger or smaller? What are the next two numbers in this pattern?
8. Paul's sister Jenny was making a bead necklace for brother. Jenny began the pattern, but she left it unfinished. Help Paul to finish the bead necklace by selecting the next three correct beads.

Red	Blue	Red	Red	Blue	Red			
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9. Copy the following information and write a question to make it an addition problem. Then solve the problem.

Paul rode 4 blocks to the library, and then he rode 8 blocks to the mall. Finally, Paul rode 12 blocks home.
10. I am a number bigger than 99, but smaller than 200. If you add the number in my tens place with the number in my ones place you get the number 14. The number in my ones place is greater than 8. What is my number?



Set 2

1. Sarah loved to color pictures with her crayons. She had a box of crayons that held 36 crayons and a box that held 24 crayons. How many more crayons were in the box of 36 than the box of 24?
2. Sarah decided to use both boxes of crayons. She dumped the box of 36 on the table and then she dumped the box of 24 on the table. How many crayons did Sarah have on the table in all?
3. After cleaning up her crayons, Sarah wanted a snack. She opened a package of 15 fruit snacks and put them in a bowl. Sarah's friend Janet asked if she could have some of the snacks. After Sarah said she could, Janet took 6 fruit snacks. How many fruit snacks were still in the bowl?
4. The class had a reading contest to see who could read the most pages in 30 minutes. The top two readers in the class were Sarah and Reggie. Sarah read 22 pages and Reggie read 17 pages. How many more pages did Sarah read than Reggie?
5. At lunchtime the teacher called the class to line up for lunch. The class had 25 students. If 18 students lined up in the hot lunch line how many students were not in the hot lunch line?
6. After school Sarah and her mom went to the store to buy treats for the class. Sarah told her mom that there were 25 students in her class. Her mom was trying to decide how many boxes of cupcakes to buy. Each box of cupcakes had 10 cupcakes. How many boxes should Sarah's mom buy? Why?
7. The next morning the class was working on rounding to the nearest ten. Sarah had to round the 63 to the nearest ten. She thought that there were already 6 tens and that the 3 ones should make her add another ten. That makes 7 tens or 70. Is Sarah correct? Explain why or why not.
8. Reggie told Sarah that he had 12 new pencils, and that he was going to give some away to his friends. Reggie gave 7 pencils to his friends. How many pencils did Reggie have left?
9. Janet told a riddle that afternoon. She said that a barnyard had 20 animals in it. There were horses, chickens, goats, and cows. If 6 of the animals were horses, how many animals were not horses?
10. Copy the following information and write a question to make it a subtraction problem. Then solve the problem.

Sarah had 17 marbles. Janet had 9 marbles.



Set 3

1. Jalen was looking for his friend's house by looking for the address. His friend's address was 2531 Richfield Blvd. Jalen looked at the two houses in front of him. They were 2517 and 2519 Richfield. Is Jalen's friend's house farther than those numbers or before those numbers? Why?
2. Jalen collects stickers just like his little sister. Jalen has 54 stickers. His little sister has 37 stickers. How many more stickers does Jalen have than his little sister?
3. There are 32 students in Jalen's class. He is one of 17 boys. How many girls are in Jalen's class?
4. Jalen's class set up a Snack Shack at school. They bought 50 granola bars to sell at the Shack. On the first day, the students bought 12 granola bars. How many granola bars did the class have left?
5. The class made \$17 on Monday, \$14 on Tuesday, and \$16 on Wednesday. How much money did the class make in those three days?
6. After two weeks of the Snack Shack business, Jalen's class made \$153. Steve's class made \$149 last year. Which class made more money, Jalen's class or Steve's class? How did you decide upon that answer?
7. Jalen's class decided to take the \$153 and place it in the bank. From that money they bought new art supplies for the class. The art supplies cost \$67. How much money did the class have left in the bank?
8. The teacher gave Jalen's table 8 markers. She said each person at the table should have the same number of markers. If there were 4 people at Jalen's table, how many markers did each student get? Draw a picture to support your answer.
9. That night Jalen read 14 pages. His homework was to read 23 pages. How many more pages did Jalen have to read before his homework was finished?
10. Jalen started his homework at 8:00 p.m. and finished it thirty minutes later. At what time did Jalen finish his homework?

Extension: Draw a clock to show when he began and a second clock to show what time he finished.



Set 4

1. Haley needed a score of 50 to win the game. She had earned 34 points. How many more points does Haley need to win the game?
2. After the game the class took a math test. Haley earned a score of 91, and Charlie earned a score of 78. How many more points did Haley earn than Charlie?
3. Haley goes to John F. Kennedy Elementary School. There are 657 students in the entire school. If 346 students were girls, how many students were boys?
4. Haley swam at a swim meet with teams from California, Nevada, Utah, and Arizona. There were 42 swimmers from California, 67 swimmers from Nevada, 35 swimmers from Utah, and 29 swimmers from Arizona. How many swimmers were at the swim meet in all?
5. Haley woke up at 8:00 a.m. to get ready for school. School starts at 8:55 a.m. How many minutes did Haley have to get to school?
6. Haley wanted to plan a party for her birthday. She wanted everyone to be able to sit and eat pizza and cake. There were going to be 12 (including Haley) at the party. Each table could seat 4 people. How many tables did Haley need to get for her party? Please draw a picture of the tables to help solve the problem.
7. Haley had 13 flowers. Her friend Susie only had 3 flowers. Haley wanted to share her flowers so that they would each have the same number of flowers. How many flowers would Haley have to give Susie so that they would have the same number of flowers?
8. If the new PlayStation game system costs \$174, is it closer to \$170 or \$180? Explain why you made that choice.

If you wanted to buy this system, would you need \$170 or \$180?
9. Haley finished the card game with 1,135 points. Vanessa had 1,120 points, and Robert had 1,129 points. Put the three kids' points in order from least to greatest.
10. Haley had a bunch of coins. She bought a bottle of soda for \$0.87. List the ways Haley could get this amount.



Set 6

1. Erica is in line to buy tickets to a concert. She is the 85th person in line. They have just sold tickets to the 77th person in line. How many more people are in line ahead of Erica?
2. The tickets for this concert have been on sale for three days. The first day 148 tickets were sold. The second day 215 tickets were sold, and the last day 363 tickets were sold. How many more tickets were sold the last day than the first day?

What piece of information was not needed to solve this problem?

3. Using the information from problem number two how many tickets were sold in all during the three days?
4. Erica bought two children's tickets and one adult ticket. A child's ticket cost \$12, and an adult ticket cost \$18. How much money did Erica spend on the tickets?
5. The stadium holds 954 seats for a concert. If 874 people were at the concert how many empty seats were there?
6. In Erica's section there were 5 rows. If each row had 12 seats how many seats are in her section? Draw a picture to help solve this problem.
7. Erica was in charge of buying snacks at the concert. She had \$25 to buy snacks. The snack prices were as follows:

Popcorn:	\$3.95
Soda:	\$2.95
Candy:	\$1.95
Ice Cream	\$3.95

Erica was buying for three people (herself, a friend, and her mom). Pretend you are Erica; what items would you buy and how many of each item. Write down how much money you would spend. Remember, it must be less than \$25.
8. In the audience of 874 people, 496 of them were girls. How many boys were at the concert?
9. Erica bought a t-shirt at the concert for \$14.65. She paid for the t-shirt with a \$20 dollar bill. How much change did Erica get back?
10. The concert ended at 10:00 p.m. How long was the concert? What piece of information do you need to have to answer this question? Why do you need this piece of information?



Set 7

1. Robert had a high score of 382 on the video game. Robert's brother, Billy, had a high score of 279 on the same game. How much higher is Robert's score than Billy's score?
2. Robert and his family went on a trip from Los Angeles to Salt Lake City that was 476 miles long. While traveling in their car Robert kept track of how far they had traveled. When Robert's family had arrived in Las Vegas they had traveled 290 miles. How many more miles did they have to travel?
3. On the trip the family counted license plates from different states. In all they counted 157 license plates. There were 68 license plates from Nevada. How many license plates were **not** from Nevada?
4. During the trip Robert and Billy played Video Games from 8:00 a.m. to 9:30 a.m. Then they watched a movie from 9:30 a.m. to 11:30 a.m. Which activity did the boys do longer: play video games or watch a movie? How do you know?
5. The family was able to travel 70 miles in one hour. At this speed how many miles could the family travel in three hours? Please draw a picture to help you solve this problem.
6. Write the following information and then write a question that would make this a subtraction problem.

This trip was supposed to take 7 hours. They had traveled 4 hours so far.

7. On the highway the speed limit was 70 miles per hour. When the family turned off of the highway in Las Vegas the speed limit was 35 miles per hour. How much faster could the family drive on the highway than on the street in Las Vegas?
8. In Salt Lake City the family was looking for 6789 Lake Ave. When the family came to Lake Ave. they saw a sign that read 2000-4999 Lake go left, and 5000-9999 Lake go right. Should the family go right or left? Why?
9. Robert's family stayed at a hotel with a lake on one side and a mountain on the other side. The bike trail around the lake was 12 miles long. The bike trail around the mountain was 17 miles long.

Write a question that would **compare** the bike trail around the mountain to the bike trail around the lake.

10. It cost the family \$158 per night to stay at the hotel. If they stayed for two nights at the hotel how much money did it cost the family?



Set 8

1. Create a sequence, a number pattern, that increases by 5. It should begin with the number 2 and end with the number 37.
2. Create a sequence, a number pattern, that decreases by 3. It should begin with the number 36 and end with the number 0.
3. Create a sequence, a number pattern, that increases by 4. It must begin with any number greater than 10 and end when there are 6 numbers in the pattern.
4. Create a pattern using a total of 15 triangles and squares. There should be double the number of squares compared to the number of triangles.
5. Skip count by the following numbers. If you can't count by those numbers begin with the number and add that same number over and over to get the next number in the skip count.

2's: _____

3's: _____

4's: _____

5's _____

Circle the numbers that are in at least two skip counts. Put a triangle around numbers that are in 3 skip counts.

6. A pyramid with blocks is made by taking away one block from the number of blocks on the row below. For example if a pyramid began with 3 blocks on the bottom row, the next row would have two blocks and the top row would have 1 block. Draw out a pyramid of blocks with a bottom row with seven blocks. How many blocks would be used to create this pyramid?
7. Using base ten blocks draw the number 368. Use the big squares for hundreds, lines for tens, and small circles for ones. When you are finished draw the number 348 with base ten blocks. Circle the base ten pieces that show you that 368 is greater than 348.
8. Give three different ways to make \$0.72 with coins. What is the smallest possible number of coins?
9. Create an addition story problem using the numbers 348 and 259.
10. Create a subtraction story problem that uses the numbers 245 and 169.



Set 9

1. Edward went to the movies with his friends. He bought popcorn for \$3.56, a soda for \$2.95, and a box of Milk Duds for \$3.95. He went to pay with a ten-dollar bill. Did he have enough money for the treats?
2. The movie theater had 10 rows of seats. Each row had 8 seats. How many seats were in the movie theater? You may draw a picture to solve this problem.
3. The movie started at 7:00 p.m. It lasted 1 hour and 40 minutes. What time did the movie end?
4. After the movie Edward went to an ice cream stand. He wanted a double scoop of ice cream, but he did not want the same flavors. The ice cream stand had strawberry, chocolate, vanilla, bubblegum, and cookie dough. How many different choices could Edward make? List the different ways to make a double scoop ice cream cone with different flavors.
5. The double scoop ice cream cone cost \$3.75. If Edward only had quarters, how many quarters would it take to pay for the ice cream?
6. On his way home Edward found some coins. He found 3 quarters, 4 dimes, 3 nickels, and a penny. How much money did Edward find?
7. When Edward finally got home he looked at the clock. The small hand was 2 marks past the 9 and the big hand was just before the 5. What time was it?
8. When Edward woke up the next morning for breakfast, it was 7:30. Was it 7:30 a.m. or 7:30 p.m.? Please explain why you chose your answer.
9. Riding the school bus to school takes 25 minutes for Edward to get to school. If Edward gets on the school bus at 8:15 a.m. what time will Edward get to school?
10. Edward worked in the school store Monday through Friday. On Monday the store made \$12. On Tuesday the store made \$11 and on Wednesday the store made \$14. Finally the store made \$15 on Friday. How much money did the store make during this week?

***What piece of information is needed to solve this problem?



Set 10

1. Lisa went a basketball game between the Rebels and the Cougars. The Rebels scored 104 points. The Cougars scored 89 points. How many points did the Rebels beat the Cougars by in this game?
2. There was a special give away at the game. The person sitting in Row L Seat 14 got a free t-shirt. Lisa was sitting in Row L Seat 6. How many seats away was Lisa from the winning seat?
3. There were 100 people sitting in Lisa's section. There were 73 people wearing red in that section. How many people were not wearing red?
4. At the game Lisa bought a hot dog for \$4.55 and a soda for \$2.95. She paid with a \$10 bill. How much change did Lisa get back?
5. The final score of the basketball game was: Rebels 104 and Cougars 89. At the end of the first half the Rebels led 56 to 38. Who scored more points in the second half of the game? How many more?
6. In basketball each normal basket made is worth 2 points. If Lisa's favorite player made 8 normal baskets how many points did he score?
7. If you make a basket from outside the three point line the basket is worth 3 points. The best player on the Cougars made 6 of those baskets. How many points did that player score?
8. Lisa played a game with her friend called guess the number of my favorite player. The number is odd. It is less than 40, but it is greater than 20. When you add the two digits together you get 5. What is the number of Lisa's favorite player?
9. The Rebels scored 104 points and the Cougars scored 89 points. Lisa has to write a question based on this information that asks people to add the two scores. Help Lisa create a question for this problem.
10. In the next two problems circle the words that tell you that you need to subtract to solve the problem.

Lisa is 12. Sally is 9. How much older is Lisa than Sally?

Lisa has 30 peanuts. She gives Sally 12 peanuts. How many peanuts does Lisa have left?



Set 11

Mr. Wallace's class took a survey of the students at Johnson Elementary School. Help Mr. Wallace's students answer the following questions.

1. Johnson Elementary School had 735 students. The students were asked how many liked what was served for hot lunch. The survey showed that 471 students liked what was served. How many students did not like what was served for hot lunch?
2. The survey asked what were the favorite sports to play at recess. Four square received 354 votes, basketball got 129 votes, and kickball was the favorite for 267 students. How many more votes did four square get than kickball?
***What piece of information was not needed to solve this problem?
3. Out of the 735 students in the school, Mr. Wallace's class learned that 396 of them were boys. How many students were girls at Johnson Elementary School?
4. There are 100 fifth graders at Johnson Elementary School. Half of them like to read for an hour every night. What number is half of 100? How do you know?
5. The survey asked what was the favorite subject in school. The following results show how many students picked math in each grade level:

Kindergarten:	25 students
First Grade:	37 students
Second Grade:	32 students
Third Grade:	49 students
Fourth Grade:	45 students
Fifth Grade:	52 students

How many students picked math in the whole school?
6. The students were about their favorite special class. Two hundred sixty-seven students selected Art. One hundred forty-eight students selected Music. Two hundred twenty-nine students selected P.E. How many more students prefer P.E. to Music?
7. The Second, Third, Fourth, and Fifth grades each have 4 teachers. How many teachers are there in those grade levels?
8. At Johnson Elementary four hundred seventy-nine students walk to school out of the 735 students who go to the school. How many students do not walk to school?
9. The Third Grade has 109 students, and the Fourth Grade has 115 students. How many Third and Fourth grade students are there all together?
10. To graph the number of students who like math at each grade level what kind of graph would be best: (circle graph, line graph, bar graph, pictograph). Why?



Set 12

1. Mr. Davis gave the students at table four 12 pieces of chocolate to share equally. If there were 4 students sitting at table four, how many pieces of chocolate did each student get?
2. Shannon tried to figure out how many students were in Mr. Davis' class. She knew there were 4 students at each table and there were 5 tables in the classroom. How many students were in Mr. Davis' class?
3. David had the job of filling the pencil cans with pencils each morning. Mr. Davis gave him 30 pencils in the morning to put into the 5 cans. How many pencils did David put in each can so that each can had the same amount?
4. Ms. Allen put her students in rows. She had 3 rows with 7 students in each row. How many students were in Ms. Allen's class?
5. Shannon and her friend Marcus won the prize for answering the most story problems correctly. The prize was 12 jellybeans. Shannon and Marcus each got half of the jellybeans. How many jellybeans did Shannon get?
6. Mr. Davis put the problem $70 - 36$ on the board. Shannon solved it by writing that $0-6$ equals 6 and $70 - 30$ equals 40. The answer on Shannon's paper was 46. Did Shannon correctly answer this question? Explain.
7. The class was trying to decide if 75 should be rounded to 70 or 80 when rounding to the nearest ten. What do you think? Why?
8. At lunch a slice of pizza costs \$1.65. Shannon paid with two \$1 bills. How much change did Shannon get back? Give examples of two different groups of coins that would equal that amount.
9. In a math fact game the boys earned 200 points. The girls earned 178 points. How many more points did the boys earn than the girls?
10. Mr. Davis' class had reading from 10:15 a.m. to 11:30 a.m. They had math from 12:50 p.m. to 2:10 p.m.
 - *How long was each class?
 - *Which class was longer?
 - *How much time out of the day was Reading and Math combined?
 - *What time do you think lunch started and what time do you think lunch ended (lunch is 30 minutes)?



Set 13

1. Michael had 16 tokens for Pistol Pete's Pizza. He wanted to give them away. He gave half of them to John and half of them to Rebecca. How many tokens did each person get?
2. John took his tokens and started playing a basketball shooting game. He played the game 3 times and each time he got four tickets. How many tickets did he get playing the basketball game?
3. Rebecca waited to use her tokens until after the pizza came. The waiters brought out 3 pizzas. Each pizza had 8 slices. How many slices were in all?
4. Each kid at the party got a party hat. There were 4 stickers on each party hat. If there were 6 kids at the party how many stickers were there in all?
5. With kids and adults there were 12 people at the party. Pistol Pete's waiters set up two tables for the party. How many people would be at each table if both tables had the same number of people?
6. The best game costs 3 tokens. Rebecca played that game 5 times. How many tokens did it cost her?
7. By the end of the night John had so many tickets it was very hard to count them. He decided to put them into piles of ten. John made 8 piles of ten tickets. How many tickets did John have?
8. Rebecca chose a different way to count her tickets. She decided to put her tickets into piles of five. Rebecca made 9 piles of five tickets. How many tickets did Rebecca have?
9. John wanted to use his tickets to buy a yo-yo. A yo-yo cost 75 tickets. He was also interested in a reflector ring that cost 58 tickets. How many more tickets was the yo-yo than the reflector ring?
10. After talking to Michael's mom, John's mom wanted to have his birthday party at Pistol Pete's as well. Michael's mom told her that it cost \$5 per person at the party. John's mom had to think. She only had \$75 in the budget for the party. How many people could she invite to the party?



Set 14

1. Alex works at a store. He makes \$6 per hour. In a normal day Alex works 6 hours. How much money does Alex make for one day of work?
2. Alex has to put boxes of candy in cartons. In each box of candy there are eight candy bars. A carton will hold 6 boxes of candy. How many candy bars are in a carton?
3. For a spring decoration Alex had to show chocolate eggs in baskets. He had 36 eggs to share equally among the 4 baskets. How many eggs could he put in each basket?
4. The normal cost of each basket was \$16.45. The baskets were on sale for \$12.79 each. How much cheaper is the sale price than the normal price of the basket?
5. Susan came into the store to buy a basket at the sales price of \$12.79. She gave Alex a \$20 bill. How much change did Susan get back from Alex?
6. In the store there are 9 isles. In each isle there are 5 shelves of food. How many shelves of food are in the entire store?
7. The store opens at 8:00 a.m. and closes at 9:00 p.m. How many hours is this store open each day?
8. Alex needs to unpack 8 boxes. He can unpack 2 boxes in 1 hour. How many hours would it take to unpack all of the boxes? If he started at 3:00 p.m. what time would he get finished?
9. Use the following information create a multiplication story problem:
 *3 groups
 *8 in each group
10. Soda is sold in the store for \$3.00 for 12 cans of soda. You can also buy 24 cans of soda for \$6.50. Which is a better deal? Why?



Set 15

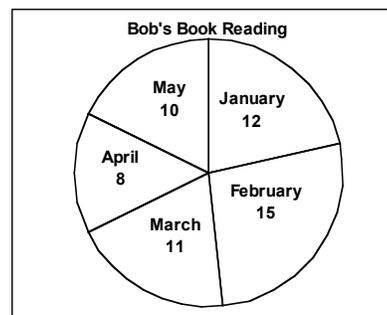
1. Jimmy has 4 dimes, 5 nickels, and 6 pennies. Write a multiplication problem for the value each set of coins. How much money does Jimmy have all together?
2. Allison bought a package of stamps at the grocery store. The stamps come on one sheet of paper. There are 8 rows with 2 stamps in each row. How many stamps are there? If Allison placed three stamps on envelopes to mail, how many stamps would she have left?
3. Kwan had 18 utensils (forks, spoons, knives). At each place setting Kwan put a fork, a spoon, and a knife. How many place settings could Kwan set up with the number of utensils that he had?
4. Sam was counting by 3's: 3 6 9 12 ___ ___ ___
*Fill in the last three numbers.
Amanda was counting by 6's 6 12 ___ ___ ___
*Fill in the last three numbers.
*Circle the numbers that are the same in the two groups.

5. Bob wanted to see which month he read the most.

Which month did he read the most?

Which month did he read the least?

How many more books did he read in January than May?



6. There are 90 students in the Fifth grade going to a play. They need to decide how many buses are needed to take the students to the play. Each bus can hold up to 30 students. How many buses should they order?
7. The marching band is in the shape of an array. There are 9 rows of band members. In each row there are 9 band members. How many members are in this band?
8. In the garden there are 7 flowers. Each flower has 6 petals. How many petals are in the garden?
9. Juan was born in 1991. Bridget was born in 1987. How old are each of these two people now? How much older is Bridget than Juan?
10. A football field is 100 yards long. There are 3 feet in each yard. How many feet are in a football field?



Set 16

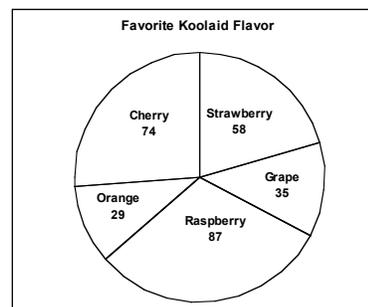
1. The multi-purpose room was filled with chairs for the play. There were 9 rows of chairs and 8 chairs in each row. All of the seats were filled except for the last two seats in the last row? How many people were at the play?
2. Ken started with 50 raffle tickets to sell. He sold 17 to his family and some to his friends. He was left with 8 tickets. How many tickets did he sell to his friends?
3. The dining room of the Grand Hotel decorated beautifully. It had 6 tables with blue tablecloths and flowers on top. At each table there were 8 seats. How many seats were available?
4. Shawn went on a cruise. The boat traveled to wonderful cities right on the ocean. The trip took 4 weeks. How many days did the trip take?
5. The restaurant left 5 mints for Sue and Dorothy. They decided to split the mints equally. How many mints did each girl get? What did they do with the last mint?
6. The Woodard family went to the Movies. Each ticket cost nine dollars. If the family paid \$45 in tickets how many people are in the Woodard family?
7. Rose planted a garden. She planted 8 rows of flowers with 8 flowers in each row. Of the 8 flowers 4 were red and 4 were pink. How many red flowers were in the garden?
8. Cole wanted to buy a magazine and a pack of gum. The magazine cost \$4.78 and the gum cost \$0.85. Cole has a \$5 bill. Can he buy both items? How much change does he get, or how much more money does he need?
9. The Steakhouse restaurant has square tables where 1 person can sit on each side of the table. If there is a large party the restaurant pushes two tables together. How many people can sit at two tables pushed together? How many people can sit at three tables pushed together? How many people can sit at pushed together? [Hint: Draw a picture to help you solve this problem.]
10. Veronica raced in a marathon throughout the city. There were 100 runners in the marathon. Veronica finished 37th. How many runners finished behind Veronica? How many runners finished ahead of Veronica? Shelby finished in 52nd place. How many places was Veronica ahead of Shelby?



Set 17

1. There are 5 desks in each group in the classroom. At each desk there a folder for class work, a folder for graded work, and a folder for homework. How many folders are at each group?
2. It takes 24 pictures to make 1 slide show on the computer. How many pictures would it take to make 2 slide shows on the computer?
3. It cost \$3.84 to buy a notebook, \$1.75 to buy a package of pencils, and \$2.28 to buy a package of erasers. How much money would it cost to buy all three items?
4. Dana bought a backpack for \$16.83. She got \$3.17 back for change. How much money did Dana give the cashier for the backpack?
5. Jack was playing catch in the park with his friends. He looked down to pick up the ball when he saw 6 coins. He added up how much money he found and realize it was \$0.57. What coins exactly did Jack pick up at the park?
6. Lee's high score on the game was 506. He let his friend Beth play and she got 439. How much higher is Lee's score than Beth's score?
7. The party had 100 gift bags for the people at the party. If there were 25 people at the party how many gift bags did each person get? How did you figure out this problem?
8. Mr. Barber's class took a survey of favorite Kool-Aid flavors at the school. The results were as follows:

What was the favorite Kool-Aid flavor?
What was the least favorite flavor?
How many more votes did Strawberry get than Orange?
How many total students voted in the school?



9. Look at the information given in problem number 8. Round each of these numbers to the nearest 10. Then add the rounded numbers to get a rounded total. How far away is the actual total from the rounded total?
10. Write your own division story problem using the total of 27 and sharing equally among three people.



Set 18

1. Draw a rectangle and a triangle. Find two differences between the figures
2. Willie found 2 quarters, 4 dimes, 6 nickels, and 8 pennies in the back of his closet. How much money did Willie find? Willie had to give of the money with his brother, Adrian. How much money did he give Adrian?
3. Wanda was trying to figure out a code. She kept looking at the numbers:
86 83 80 77 74 71
Is the code increasing or decreasing? What are the next three numbers in the code?
4. Eva has been collecting stickers for 4 years. She has 403 stickers in her collector's book. One hundred twenty-eight of those stickers are of stars. How many of the stickers are not of stars?
5. For the final challenge the 48 campers broke up into teams of 6. Each team had to work together to race through the obstacle course before the other teams. How many teams were in the final challenge?
6. The farmer planted corn on one side of his farm and wheat on the other side. For the corn he planted 4 rows with 8 stalks growing in each row. For the wheat side he planted 6 rows with 6 stalks growing in each row. Which side did the farmer have more stalks growing: the corn or the wheat?
7. The farmer wanted to put a fence around the corn stalks to keep out the small animals that were eating the corn. The corn stalks made the shape of a rectangle. The longer side of the rectangle was 14 feet long. The shorter side of the rectangle was only 8 feet long. What is the perimeter of the cornfield?
8. Explain the difference between a circle and a sphere. Explain how they are alike and why they are different.
9. Piano practice lasts for 1 hour. It starts at 4:30 p.m. Elizabeth had to leave 5 minutes early, because she had a doctor's appointment. What time did Elizabeth leave practice?
10. Make a line graph to show the following information about how many books were checked out of the library during the first 4 weeks.

Week 1	55 books
Week 2	42 books
Week 3	85 books
Week 4	58 books

Why is a line graph good for this information? Between what two weeks do you think a book report was assigned based on the graph?



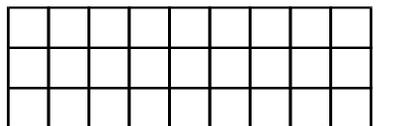
Set 19

1. Michelle wanted to help at the school carnival. She volunteered from 6:00 p.m. to 7:30 p.m. on the first night and 5:30 p.m. to 7:00 p.m. the second night. How much time did Michelle volunteer at the carnival in all?
2. Helen looked for the shortest line for the games at the carnival. She saw 6 games, and each game had a line with 7 people. How many people did Helen see in line?
3. Freddie went to the cakewalk. He looked at the cakes that were left. He noticed that there were 9 cakes left. On each cake were six candy stars. How many candy stars were there in all?
4. At the football toss Jim was excited to play. The sign said 3 tosses for 4 tickets. How many tickets did Jim give if he tossed the football 12 times?
5. It took 5 tickets to go down the big slide. The twin sisters, Stacy and Mary loved the slide. Stacy went down 7 times, and Mary went down 5 times. How many tickets did the twins spend on the big slide?
6. Mr. Edwards, the principal, was in the pie toss booth. Everyone wanted to hit Mr. Edwards with a pie. Mr. Edwards earned 80 tickets. It took five tickets for each person to throw a pie at Mr. Edwards. How many people got to throw a pie before Mr. Edwards had to leave?
7. During the carnival there were two raffles. One raffle for a trip to an amusement park and the other raffle was for an iPod. Three hundred forty-seven people entered the raffle for the amusement park. Five hundred eighty-four people entered the raffle for the iPod. How many more people entered the raffle for the iPod than entered the raffle for the amusement park?
8. Last year the carnival brought in \$2,509 for the school. This years carnival brought in \$2,732 for the school. How much more money was raised this year than last year?
9. The students could get 6 tickets for a dollar. How many tickets could they get for eight dollars?
10. One of the booths was a guessing booth. In this booth there were marbles of different color. There were 3 red marbles, 2 green marbles, and 5 blue marbles. Which color marble do you think would be pulled out most often? Why?



Set 20

1. The Anderson's went to the pound to look for a dog. They looked in 3 different sections. Each section had 7 dogs. How many dogs were at the pound?
2. The dog needed an area to run and play without chewing up the lawn furniture. The Anderson's decided to put a fence around the grass. How many yards of fence do they need?



9 yards

3. What is the area of the grass patch for the dog? Answer in square yards.
4. The Anderson's spent \$262 on building the fence for their dog. Now they want to build a doghouse in that area. The doghouse will cost \$78. How much money will the entire project cost?
5. The doghouse will have an area of 8 square yards. Describe how long and how wide the doghouse could be?
6. How much of the grass is left if the doghouse covers 8 square yards? Please answer in square yards.
7. Look at the answer to problem number 2. There are 3 feet in every yard. What is the perimeter of the grass field in feet?
8. How are these two shapes the same, and how are they different? Explain your answer using the name for each shape.



9. Jaime looked at the pattern and tried to figure out what would come next. Help Jamie decide which shape would come next. How are the shapes different?

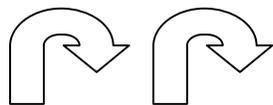


10. Diane is 8 years old. Her sister is half as old as Diane. How old is Diane's sister?

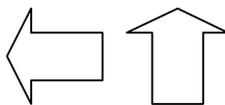


Set 21

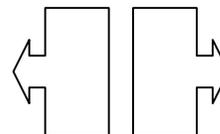
1. Jeremy had to organize these sets of figures into slides, flips, and turns. Help him name each set as a slide, flip, or turn and explain why these figures match the meaning of that name.



A

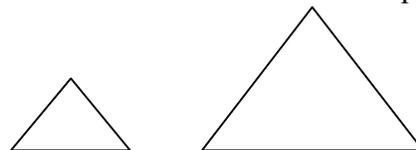


B

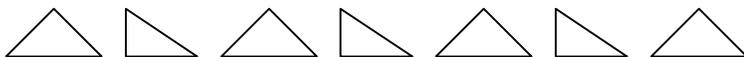


C

2. Are these two shapes congruent or similar? Write the definition of each word and explain how these two shapes fit into one of the definitions.



3. Guess my shape. I am a three-dimensional shape. I have twelve edges. I have eight corners. I have many faces, but each of them is in the shape of a square. What shape am I?
4. The following pattern is made of triangles. There are 7 triangles. How many sides are there in all? What if the pattern extended to 10 triangles? What about 12 triangles?



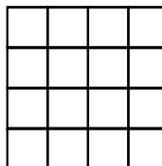
5. Wanda had a garden in her backyard in the shape of a square. Each side of the garden measured 9 feet long. Wanda planted vegetables in her garden but the rabbits kept eating them. She wanted to put a small wire fence all the way around her garden to protect it. How long should her fencing be?
6. Guess my shape. I am a two-dimensional shape. I have the same number of sides as a rectangle, but I do **not** have 4 right angles. Two of my sides are parallel, but the other two sides are not. What shape am I?
7. Table 4 has to share the box of shapes equally. There are 5 students at Table 4. There are 55 shapes in the box. How many shapes does each student get?
8. Brian wanted to measure the perimeter of the backyard to decide how big the pool could be. Which of the following tools would it be reasonable for Brian to use: a thermometer, a ruler, a measuring cup, or a tape measure?
9. Extend this pattern for three more numbers. **22, 33, 44, 55, 66, __, __, __**
10. Write the rule for the pattern above.



Set 22

1. A loaf of bread in the grocery store cost \$2.25. That same loaf of bread cost \$2.82 at the store on the corner. How much more expensive is the corner store than the grocery store?
2. Outside the grocery store boxes get stacked full of food. The boxes get stacked in piles of 6, because any higher than six the stack might fall down. If there are 36 boxes in all, how many piles of six are outside of the grocery store?
3. Hotdogs come in packages of 6 and hotdog buns come in packages of 8. How many packages of each should you buy to have the same number of hotdogs and hotdog buns? The number of hotdogs is less than 30.
4. A box of cereal comes in a three-dimensional shape. What is the name of that shape? Think of another three-dimensional shape that would hold cereal so that it could be sold in a store. Explain.

For problems 5-8 use the following diagram of the classroom.



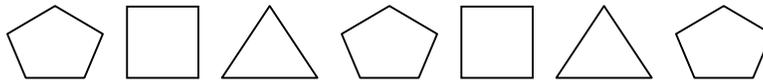
Each square is 1 yard by 1 yard

5. The teacher went to set up the classroom. She wanted to know the area of the classroom in square yards. What is the area of the classroom according to the diagram?
6. The teacher will have the student desks in half of the classroom. How many square yards will have student desks? Please color the diagram blue to show where the desks would be.
7. The teacher will have one-fourth of the classroom as a reading center. How many square tiles will that be? Please color the reading center yellow on the diagram.
8. The teacher will use the final one-fourth of the classroom for her art supplies and a publishing station for student work. How many square tiles will be included? Please color the final one-fourth green.
9. Using a sheet of graph paper create your own classroom. Color each section in your classroom to show what you would like to see in a classroom. Your total area of your classroom should be 36 square units. Each section should come with an explanation of what the section is for, and you must list the area for that section.
10. If you started this activity at 10:10 and finished this activity at 11:25 how much time did it take you to complete this activity?

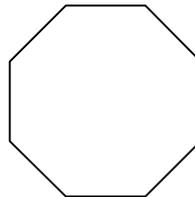


Set 23

1. The summer campers were going on a fieldtrip to the Space Museum. They decided that they would travel in vans driven by their parents. There were 25 summer campers, and each van could only hold 6 campers. How many vans did they need for the fieldtrip?
2. The tickets for the Space Museum cost \$4 for children and \$6 for adults. Sandy's mom had to pay for three children, and she had to pay for herself. How much money did the tickets to the Space Museum cost for Sandy's mom?
3. Twenty-five campers had to buy tickets to the Space Museum. It was \$4 for each child's ticket. How much money were the tickets for the summer camp children to go to the Space Museum?
4. The rockets in the museum had a pattern of shapes along the side panels. The following pattern shows the pattern on the rockets, but the final two shapes were hidden due to fire damage to the rockets. What are the final two shapes in the pattern?



5. Guess my shape. My shape is used in build rockets. I am three-dimensional of course. My top and my bottom are made with circles. I have no corners and I am very smooth. What shape am I?
6. The museum set up ropes around the main rocket so that no one would be able to touch it. The ropes formed the following shape. What is the name of the following figure and how many sides did it have? If each side was 5 feet long what was the perimeter of the ropes?



7. The scientists were comparing two craters that can be seen on the moon with a telescope. The first crater measured 2,569 meters long, and the second crater measured 2,823 meters long. Which crater was longer and how did you decide?
8. Sandy got to spend some of her money in the gift shop. She bought a space poster, a moon key ring, and a solar system puzzle. The poster cost \$3.95, the key ring cost \$1.26, and the puzzle cost \$8.55. How much money did Sandy spend in the gift shop?



9. Sandy's mom was so excited that she bought the family a new telescope. The telescope cost \$83.95. Sandy's mom gave the clerk a \$100 bill. How much change did Sandy's mom get back?

10. Each camper received two space stickers on the way out of the museum. With twenty-five campers how many stickers were there in all?



Set 24

1. Which figure has the greatest area?

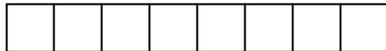


Figure A

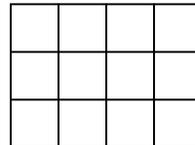


Figure B

2. Does the figure with the greatest area also have the greatest perimeter? Find the perimeter of each figure.
3. Walter makes \$32 every time he puts up a fence around someone's yard. If he made \$96 how many fences did he put up around a yard?
4. Walter makes \$8 an hour putting up fences. If he makes \$32 per fence how long does it take him to put up a fence?
5. Walter made \$320 the first week of March. He made \$256 the second week, but then took the third week off for a vacation. He finished the last week of March with \$192. How much money did Walter make in March?
6. Use the information in problem 5. How much more money did Walter make in the first week of March than in the last week of March?
7. Guess my shape. I am the shape of an object that was hit over one of Walter's fences. I am not two-dimensional. Round is often how I am described. I have no corners, edges, or faces. What shape am I?
8. The following pattern has 3 columns of three stars and 2 columns of two stars. If the pattern continues how many stars will there be in all with 7 columns of three stars and 6 columns of two stars.

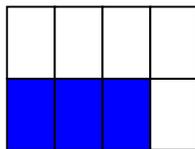


9. Walter goes to work at 8:30 a.m. every day. He comes home at 5:30 p.m. How long is Walter gone each day?
10. During his workday Walter takes three 15-minute breaks and one half hour break for lunch. How much of Walter's day is he on break?

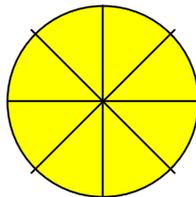


Set 25

1. Vince ordered a pizza with pepperoni and sausage. When the pizza came Vince noticed that there were 12 pieces. Vince ate half of the pizza. How many pieces did Vince eat?
2. The pizza cost \$12.67 including a delivery charge. Vince gave the guy \$15. How much money did Vince get back in change?
3. The pizza cost \$12.67 including a delivery charge. If the delivery charge is \$2.99 how much money did the pizza cost?
4. Vince went to get a plate from the cabinet. He has four plates, but three-fourths of the plates were in the dishwasher. How many plates were clean?
5. The figure below shows how many clean glasses in the cabinet by shading them. What fraction of the glasses above were clean?



6. Vince got a second pizza for his younger sister. This pizza was smaller, but she was able to eat 8 pieces. What fraction of the pizza did Vince's sister eat?

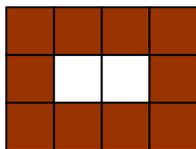


7. The smaller pizza cost \$10.54. Vince took out three \$5 bills. How much money did he get back in change?
8. Vince and his sister got a glass of Dr. Pepper to go with their pizza. Vince drank three-fourths of his glass. How much Dr. Pepper was left in Vince's glass?
9. Vince called to order pizza at 5:25 p.m. The pizza delivery guy rang the doorbell at 5:50 p.m. How much time did it take the delivery guy to deliver the pizza?
10. The delivery guy was looking for Vince's house. He found the correct street easily, but he had trouble with the number on the house. Vince's house was number 2675. The delivery guy saw 2693, then 2695, and finally 2697. Should the delivery guy go on further or has he already passed the house? Explain your answer.



Set 26

1. Diane baked brownies. The pan held 12 brownie squares. She ate 3 brownies. What fraction of the brownies were left?
2. To make 24 brownies Diane had to use 4 eggs. How many eggs would she use to make 48 brownies?
3. Diane made 60 brownies for a party. She wanted everyone to have the same number of brownies. If there were 12 people at the party how many brownies did each person get?
4. Diane put the first batch of brownies in the oven at 11:05 a.m. She took them out of the oven at 11:40 a.m. How long did the brownies cook?
5. Half of the people at the party liked nuts in their brownies. Diane knew that and made half of the 60 brownies with nuts. How many brownies were made with nuts?



6. George ate the two brownies in the middle of the pan. Diane was very happy because she loved the pieces with the edge. What fraction of the pan of brownies have an edge?
7. Looking at the picture above, what fraction of the pan did George eat?
8. Samantha loved the brownies so much she asked Diane to make a huge batch for her party next week. Diane was happy to make the brownies, but she needed to know how many to make. Samantha was having a very large party and asked Diane to make 12 pans of brownies. Each pan holds 12 brownies. How many brownies did Samantha ask Diane to make?
9. Diane made 12 pans of brownies for Samantha's party. She put the brownies from every two pans into a Tupperware container. How many Tupperware containers did Diane need to bring all twelve pans of brownies?
10. Samantha paid Diane \$6 for each pan of brownies. How much money did Samantha pay Diane for all 12 pans of brownies?



Set 27

1. Patty was playing marbles with her three friends. Patty shared her marbles equally among the four of them. Each friend got 9 marbles. How many marbles did Patty have in her whole collection?
2. Stacy was one of Patty's friends. She looked at her 9 marbles and noticed that 4 marbles were red. What fraction of the marbles were **not** red?
3. Stacy and Patty put their marbles together and made a design. They had six equal rows. How many marbles were in each row?
4. The girls decided they needed more marbles so they asked to go to the store. At the store the girls found a box of marbles for \$6.72. Stacy put in a \$5 bill and so did Patty. How much change did the girls get back?
5. The box contained 4 colors of marbles. There were 25 marbles of each color. How many marbles were in the box?
6. Patty got 25 marbles from the box. She picked some marbles of each color. She picked 3 blue marbles, 6 yellow marbles, and 9 red marbles. How many green marbles did she pick from the box?
7. Stacy picked 10 reds, 5 blues, 5 yellows, and 5 reds. Stacy put her marbles into a bag to take home. If she pulled out one marble to show her mom, what color marble would she most likely pick.
8. Think about Stacy's bag of marbles from question number 7. What is the chance so Stacy pulling out a purple marble? Why?
9. The box of marbles cost \$6.72. The four girls got to equally share the marbles, but Patty and Stacy paid for the marbles. If the girls shared the cost of the marbles equally would each girl pay more than one dollar or less than one dollar? Explain your answer.
10. Stacy's mom loved the idea of a box of marbles. She wanted to buy 7 boxes for the Kindergarten class that she teaches. She decided to round the amount of each box to the nearest dollar to figure out how much money she needed to bring. How much money would each box be after she rounded? How much total money should Stacy's mom bring to the store to buy 7 boxes?



Set 28

1. Willy wanted a pet, but he wasn't sure what kind of pet he wanted. He walked to the pet store on the corner. In the pet store the first animals that he saw were rats. There were 4 cages of rats. In each cage there were 13 rats. How many rats were in the pet store?
2. Next, he went to look at the fish. The manager of the store said that there were 100 fish to choose from. Half of the fish were in the tank on the left, and half of the fish were in the tank on the right. How many fish were in each tank?
3. The sign next to the fish said you could buy 4 fish for a dollar. How many fish could Willy buy for \$12?
4. After looking at the fish, Willy went to the dog kennels. There were 10 dogs in all. Four of the dogs were poodles. What fraction of the dogs were poodles?
5. Willy heard loud calls from the birdcages. There were 3 parrots, 2 canaries, and 5 parakeets. What fraction of the birds were canaries?
6. The store manager called over the loud speaker that the store was closing at 5:00 p.m. Willy looked at his watch and saw that it was 4:52 p.m. How many more minutes did Willy have before the store closed?
7. Willy looked up and saw the pet he wanted. The snake cost \$18.63. Willy had \$18 in his pocket with some loose change. He had a quarter, three dimes, two nickels, and a penny. Did Willy have enough money to buy the snake?
8. Willy decided that his mom wouldn't like him bringing home a snake no matter how cool it was. Time was running out. He thought a gerbil might be nice. Gerbils only cost \$4.75, but he also would have to buy a cage for \$8.95. Gerbil food was also important. It cost \$3.45. How much money would it be to buy the gerbil and all its stuff?
9. Right as the store manager called for final purchases Willy spied a beautiful orange and black cat. The cat cost \$17.18. Willy gave the manager his \$18 and waited for his change. How much change did Willy get from the store manager?
10. Use the answer to the problem above to figure out what coins the manager of the store could have given to Willy. Come up with two different coin combinations that equal the change that Willy received.



Set 29

1. Ed's group won the prize from the teacher for doing the best job. There were 5 students in Ed's group. The teacher had 16 pencils to share equally. Ed got 3 pencils, but he stormed off very angry. He did not think the sharing was fair. Is he right to be upset?
2. At lunch Ed's friend, Dave, offered to share his six jellybeans with Ed and Richard. Dave said each of us could have $\frac{1}{3}$ of the jellybeans. How many jellybeans did each friend get?



3. On the way home Ed saw his partner Louis. He and Louis were partners in a lawn mowing business. They earned \$33 this month. How much money does each partner get if they are sharing it equally?
4. When Ed got home he had to share the T.V. with his sister. They have one and a half hours of T.V. that they can watch. How many minutes can they each watch the television show they chose?
5. Ed loved to play with his cards before he went to bed. He had 8 cards in his hand. 3 of the cards were of his favorite character. What fraction of the cards in his hand were not of his favorite character?
6. Ed went to sleep at 9:00 p.m. and woke up at 7:15 a.m. How long did Ed sleep through the night?
7. That day at school Ed's group won the prize again. This time the teacher laid down 22 jellybeans in a dish for the five students to share equally. This time Ed was happy with his 4 jellybeans, but he wanted to know how many jellybeans would be left over?
8. After school Ed and Louis mowed two lawns and received \$9 total. How much money did Ed take home from his work today if they got an equal share?
9. When Ed got home he played his video game. He scored 9,531. The high score on the machine was 9,496. Was Ed's score greater or less than the high score on the machine?
10. Ed looked at his watch. He saw that in 15 minutes his favorite show would be on T.V. What time is his favorite show on T.V.?





Set 30

1. A packaging machine places 20 bottles in a box before moving to the next box. If the machine completed 5 boxes how many bottles did the machine package?
2. Each box needs 3 labels. There were 39 labels on boxes in the warehouse. How many boxes were in the warehouse?
3. Each truck the company uses can carry 25 boxes. If there are 500 boxes how many trucks will be needed to carry all of the boxes?
4. Out of the 500 boxes half of the boxes contain bottles of regular soda and half of the boxes contain diet soda. How many boxes contain diet soda?
5. Guess my shape. I am in the shape of the boxes that carry the bottles of soda. I have 8 corners. I have 12 edges. None of my faces are squares. What shape am I?
6. Picking from the 500 boxes. What is the chance of picking a bottle of any kind of soda? Explain your thinking.
7. The figure below shows the length and width of a warehouse floor. What is the area of the warehouse in square feet?



253 feet

8. What is the perimeter of the warehouse as shown in the diagram above?
9. Each box of water bottles has 20 bottles. If a store buys a box of water bottles for \$20, how much does each bottle cost?
10. The company worker who loads the boxes on the trucks gets paid \$20 per hour. The worker puts in 40 hours per week. How much money does the worker get each week? If there were 4 weeks in the month how much money would he get that month?



Set 31

1. Jennifer got a new iPod for her birthday. She decided to download 4 songs from each artist. If she downloaded songs from 75 artists how many songs did she have in her iPod?
2. Jennifer wanted to continue to save music to her iPod. She had already saved songs from her CD collection. To save a song from the computer would cost \$0.99. If she saved 10 songs this way, how much money did it cost her?
3. At the party the kids were looking at iPods. There were 8 iPods in the middle of the room. Three of the iPods were green. What fraction of the iPods were green?
4. Jennifer told her friends that she had downloaded a lot of music. Lily said that she had downloaded 957 songs. Sonia told everyone that she had downloaded 1,043 songs. How many more songs did Sonia download than Lily?
5. When Jennifer got home she listened to music for 90 minutes. She started the music at 8:00 p.m. When she was finished she had to go to bed. What time did she have to go to bed?
6. The next day Jennifer went to the electronics store. She had a gift certificate for \$20. She decided to buy a charger for her iPod that cost \$12.95. She also bought an old CD for \$6.99. How much money did Jennifer have left on her gift certificate?
7. At the electronics store she saw a base that would allow her to play her music out loud in her room. It cost \$124.88. Jennifer decided to save up to buy it. She made a plan. Each week she earned \$10 for doing her chores. How many weeks would she have to save to buy the speaker base?
8. Jennifer was listening to music while walking to school. She was changing a song when the iPod slipped out of her hand and fell on the sidewalk. After school she took it to get repaired. The man told her that it would take two weeks. It was Monday the 4th of October when she brought it in to be fixed. When would it be ready? Please give the day of the week and the date in day and month.
9. While she waited for it to get fixed, Jennifer borrowed her brother's iPod at a cost. He charged her \$3 a day to borrow it. She waited two weeks to get her iPod back. How much money did she owe her brother?
10. On the day the iPod was ready, Jennifer ran to the electronics store. It was fixed, but it cost \$45.67. Jennifer gave the service man five \$10 bills. How much money did Jennifer get in change?



Set 32

1. The roller coaster was broken into separate cars. Each car could hold 9 people. There are 58 people in line to ride the roller coaster. How many cars were needed to let everyone ride?
2. The third graders raised \$280 in a bake sale. They wanted to use the money for mini clocks to help them with time. Each clock cost \$7. How many clocks could they buy?
3. The dining room has 17 place settings. Each of the 4 tables needs 5 place settings. How many more place settings are needed?
4. There were 49 people who wanted to learn Spanish. The teacher wanted to make equal smaller groups to make it easier to learn. Did the teacher use groups of 5, 6, or 7? Why?
5. Forty-three people were attending the dinner party. Each fancy table could seat 8 people. How many fancy tables were needed so that everyone would be able to eat?
6. Timmy wanted to paint eggs. His dad gave him 12 eggs. He painted $\frac{1}{3}$ of the eggs. How many eggs have not been painted?
7. In my grocery basket I have 4 green apples, 5 bananas, and 1 red apple. What fractional part of the set is fruit?
8. Twelve cans of soda come in a box. After putting the cans in the refrigerator, James noticed that $\frac{1}{4}$ of the cans were dented. How many cans were dented?
9. Becky is 45 inches tall. Her brother, Robert, is 4 feet tall. Her sister, Allison, is 52 inches tall. Who is the tallest child in the family? Put them in order from tallest to shortest.
10. George is planning a party for the baseball team. There are 13 players on the team. George decided to get pizza. Each pizza is cut into 8 slices. He figures that each person will eat 3 slices. How many pizzas should George order? How many slices will be left if everyone eats exactly 3 slices?



Set 33

1. Henry gets his allowance every Friday. He only gets his money if he does all of his chores. Henry gets \$8 per week. In April Henry did his chores for three of the weeks. The last week in April Henry did not complete his chores. This exact pattern happened for April, May, and June. How much money did Henry earn in those three months?
2. When Henry was five he started getting an allowance of \$1 per week. Each year his parents gave him another dollar per week. How old is Henry if he is getting \$8 per week?
3. Henry's best friend Luis gets \$6 per week. In four weeks Luis earns the same amount that Henry could earn in 3 weeks. What amount of money would each of them earn in that situation?
4. Henry and Luis made a deal that they would save their money, put it together, and buy a digital camera. The camera they wanted was on sale for \$127.99. Henry had saved \$67.55 and Luis had saved 63.48? Did they have enough money for the camera while it was on sale?
5. Henry has a list of 5 chores. That is one chore for each school day. On Monday he has to clean his room from the weekend. He usually starts after school about 4:15 p.m. It normally takes him about an hour. What time would he get finished on Monday?
6. On Tuesday Henry has to empty the dishwasher. There were 12 dishes in the dishwasher. Eight of the dishes were plates. What fractional part of the dishes were plates?
7. Wednesdays are Henry's days to clean the shed. The shed has a combination lock on the doors. He had to do the chore to earn the money, but he forgot the order of the numbers in the combination. He knew the numbers were 15, 21, and 46. How many different combinations could Henry have to try?
8. Henry had to wash his dad's car on Thursday. He used a four-gallon bucket. Henry filled the bucket three and a half times. How much water did Henry use?
9. Each Friday Henry has to stop at the pet store to buy cat food. He usually buys 12 cans of food for the week. He gets $\frac{1}{2}$ of the cans in tuna flavor, $\frac{1}{4}$ of the cans in chicken flavor, and $\frac{1}{4}$ of the cans in seafood flavor. How many cans of each flavor does Henry buy?
10. On Saturday Henry throws a weekend party. He usually serves sandwiches. This Saturday he only has 43 slices of bread. How many sandwiches could he make if each sandwich used two slices of bread?



Set 34

Use the words: impossible, unlikely, likely, and certain to describe the following situations. Please write an explanation of why you chose that word to describe the situation.

1. The weather in Las Vegas has been sunny for 8 days in a row. What is the chance it will be sunny on the 9th day?
2. Ryan has 24 cars and 4 trucks in his carrying case. What is the chance of Ryan taking a truck out of the case if he grabbed one without looking?
3. What is the chance that the Moon will revolve around the Earth today?
4. Ryan has 3 nickels, 2 quarters, and 1 dime in his pocket. What is the chance that Ryan will pull a penny out of his pocket?
5. In a bag of Every-Flavor-Beans there are 4 earwax flavored, 2 strawberry flavored, 3 butterscotch flavored, 5 peach custard flavored, and 12 liver-flavored beans. What is the chance of someone selecting a liver-flavored bean?
6. Write a statement that is impossible. Write a statement that is unlikely. Write a statement that is likely. Write a statement that is certain. Please label each statement with the appropriate describing word.

Solve the following problems.

7. A box of crayons has 35 colors. If nine students each had a box of crayons, how many total crayons did they have?
8. Janice found her collection of half-dollars. She counted the money and it equaled \$4.50. How many half-dollars did Janice have in her collection?
9. Janice counted her penny collection by making groups of ten. She had 570 pennies. How many groups of ten pennies did Janice have?
10. Janice separated all of her coins. She had a special place for each kind of coin. When she brought out her nickel collection she counted 46 nickels. How much money did Janice have in nickels?



Set 35

Create a pictograph to show the following information

Favorite Animals at the zoo for students.

The picture could be of faces of students.

The key would be one face = 2 students

Monkeys = 9 students

Lions = 12 students

Bears = 5 students

Snakes = 16 students

Giraffes = 4 students

Use the graph to answer the following questions.

1. How many students thought the monkeys were the best animal to see at the zoo?
2. How many more students selected the Lions than selected the Bears?
3. Which two groups of animals combined would be equal to the number of students whose favorite animal was a snake?
4. The zookeeper wanted to know the total number of students who chose a favorite animal in this graph. Help the zookeeper and explain to him how you got your answer.
5. Which animal had the fewest number of students interested in their area of the zoo? What number of students were interested?
6. Create a question using animals in the graph. The question can be a comparison of two animals or a combining of several animals from the zoo.

Solve the following problems.

7. Julius made cookies for the County Fair. He could fit 12 cookies on each cookie sheet. If Julius made 144 cookies, how many cookie sheets did he fill?
8. There are 8 containers of yogurt in a package. The school bought 520 containers of yogurt for sale at lunch. How many packages did the school buy?
9. Ninety-six baseball cards come in a box. Julius bought 5 boxes with his birthday money. How many cards did Julius buy?
10. Twelve cards come in a pack. Jackson bought 3 packs. Shelia bought 6 packs. How many more cards did Shelia buy than Jackson?



Set 36

One way to create a multiplication story problem is using a situation involving groups and a number in each group. You must end the problem with a question.

1. Create a multiplication story problem using the following information:
6 groups
4 in each group
2. Create a multiplication story problem using the following information:
9 rows
8 seats in each row
3. Create a multiplication story problem using the following information:
7 roses
6 petals on each rose

One way to create a division story problem is using a situation involving a total and a number in each group or a number of groups. You must end the problem with a question.

4. Create a division problem using the following information:
42 as a total of something
6 groups
5. Create a division problem using the following information:
35 as a total of something
5 in each group
6. Create a division problem using the following information:
64 as a total number of seats
8 rows

Solve the following problems.

7. Travis received 1,743 votes in the school election. Becky received 1,802 votes in the class election. How many more votes did Becky get than Travis?
8. Phillip won the election for Treasurer by 354 votes over Eva. Phillip got 1,958 votes. How many votes did Eva get?
9. Allison had to count votes for 3 hours. She counted exactly 723 votes each hour. How many votes did she count?
10. Jill also counted votes for three hours. She counted 625 votes in the first hour, 759 votes in the second hour, and 584 in the third hour. How many votes did she count?