



Story Problems - 1

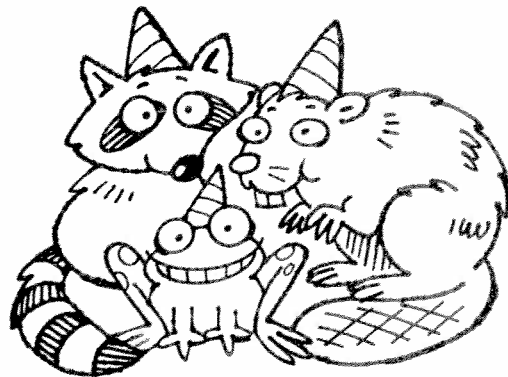
- 1** Anita is stocking the shelves at the Stop for Pop Shop. Anita puts out twice as many bottles of lemon as lime, 10 more bottles of lime than grape, four times as many bottles of grape as raspberry, two fewer bottles of raspberry than strawberry, and nine bottles of strawberry. How many bottles of soda did Anita put on the shelves?
- 2** Misha has a hidden number puzzle for Cyrena. On the green paper are two triangles and one square. On the yellow paper is one triangle and one circle. The same shapes hide the same numbers. Different shapes hide different numbers. The sum of the numbers on the green sheet is the same as the sum of the hidden numbers on the yellow sheet. The sum of all the numbers is 24. What are the hidden numbers? What are the possible answers?
- 3** Ariana was trying to win a giant panda at the Bear Toss booth. She has to hit 10 small bears and 12 large bears to win the panda. Every large bear is worth 15 points and each small bear is worth 25 points. Ariana hit 22 bears all together, for a total of 410 points. Did she win the panda?





Story Problems - 2

- 1** Della and Jane are making bows for the school fair decorations. In the first hour Della makes 15 bows and Jane makes 10 bows. In the second hour Della makes 22 bows and Jane makes 19 bows. In the third hour Della makes 29 bows and Jane makes 28 bows. In the fourth hour Della makes 36 bows and Jane makes 37 bows. If these patterns continue, how long will it take them to make 285 bows?
- 2** Jim is working at the golf range. He is collecting yellow and white balls. There are 10 yellow balls in the can when he starts. He collects more white and yellow balls until he has 75 balls all together. If there are at least four times as many white balls as yellow balls, how many balls of each color could there be?
- 3** The big party at Lily Pond was in honor of Fernando Frog. The neighborhood frogs, toads, fish, raccoons, and beavers had been invited. One-fourth of the guests were toads, three-eighths were frogs, three-sixteenths were fish, and one-thirty-second were beavers. There were three beavers at the party. How many raccoons were there? How many guests were at the party?





Story Problems - 3

- 1** Meg and Ira bought several boxes of treasure at the garage sale. When they got home, they sorted their treasures. There were six times as many trading cards as comics, three times as many comics as books, three more books than games, two fewer games than stuffed animals, and six stuffed animals. How many treasures did they get all together?

- 2** Ida's Incredible Ice Cream was giving away samples of new flavors: mint magic, chips galore, and peanut madness. Forty-five people had mint, 56 had peanut, and 63 had chips. There were 18 that sampled both mint and peanut, 26 that tasted both chips and peanut, and 20 that had both chips and mint. Eight sampled all three flavors. How many people tried the new flavors?

- 3** Jordan Junior High students had a Saturday car wash. They charged \$3.50 for big cars and \$3.00 for small cars. They had a successful day and made \$152.50, washing a total of 46 cars. How many little cars and how many big cars did they wash?



Story Problems - 4

1 Lucia, Andy, and Karen have 150 cupcakes to decorate for the big family reunion. In the first hour Lucia decorates 5, Andy 2, and Karen 15. In the second hour Lucia decorates 7, Andy 5, and Karen 14. In the third hour Lucia decorates 9, Andy 8, and Karen 13. In the fourth hour Lucia finishes 11, Andy 11, and Karen 12. If these patterns continue and they work for five hours, will they finish the cupcakes?

2 The students at King School were asked to vote for the animal that they would like to have as a pet. There were twice as many votes for cats as dogs, four times as many votes for dogs as fish, five more votes for fish than birds, and three more votes for birds than rabbits. There were six votes for rabbits. How many votes were there for each animal?



3 Two classes are picking colors for their Fall Festival Day. The top two colors will be used for posters and invitations. The students narrowed the choices down to red, green, gold, and purple. When they voted on these colors, one-third of the students voted for red, two-sixths for gold, and two-twelfths for green. Ten students voted for green. How many students voted for purple? What two colors were chosen?



Story Problems - 5

- 1** There are 55 dragons gathering for the Big Games being held at the castle today. There are three teams of dragons competing, with at least 10 dragons on each team. The teams are wearing different colors. There are at least twice as many dragons wearing purple as red and at least three more dragons wearing red than blue. How many dragons could be on each team?



- 2** It was the end of the Saturday Games and Puzzles Show. Odetta announced the Puzzler. Out came someone dressed as a silly creature. The Puzzler asked the audience for a number, and wrote it on a big board. Then he wrote his number to the right of it. After three numbers, the board looked like this:

| <u>Your Number</u> | <u>My Number</u> |
|--------------------|------------------|
| 12 | 14 |
| 20 | 18 |
| 34 | 25 |

Then Odetta asked: "Can you solve the Puzzler's Puzzle today? If your number is 46, what will the Puzzler's number be?"

- 3** Laura and Lupe are dividing up the bags of cookies so that they each can take home the same amount of cookies. There are a total of 36 cookies. Lupe loves chocolate, so she takes the two bags of chocolate cookies along with one bag of lemon. Laura likes lemon and cinnamon, so she takes two bags of lemon and one bag of cinnamon. Every bag of chocolate has the same number of cookies in it. Every bag of lemon has the same number of cookies in it. There is a different number of each kind of cookie. How many cookies could there be in each bag?



Story Problems - 6

- 1** Poor Joe is having a terrible time at Heavenly Donuts today. He has a machine that shoots out fresh warm donuts for each order. But today something is wrong! Joe punched in the first order for eight donuts, and out came 18 donuts. Then Joe punched in nine and out came 24 donuts. Next Joe punched in 12 and out came 42 donuts. What is going on? If Joe punched in 16, how many donuts would come out?



- 2** The Martin School students raised money and went to Fantasy World. There were 51 students who rode the Giant Dipper, 50 the Waterfall, and 54 the Ghost Ride. Twenty of the students didn't go on any of these rides. There were 13 students who went on the Giant Dipper and the Waterfall, 10 who went on the Waterfall and Ghost Ride, and 15 who went on the Dipper and the Ghost Ride. There were nine students who went on all three rides! How many students spent the day at Fantasy World?
- 3** The library did a month-long survey to see what kinds of books people liked to read. People voted for novels, mysteries, biographies, or poetry. When the votes were counted, three-fifths were for novels, two-tenths were for mysteries, and three-twentieths were for biographies. There were 18 votes for biographies. How many people voted for poetry? How many people voted?