

Math Practice Problems for Fourth Grade in Probability/Statistics

4P-15)

If Anna rolled one die 120 times, what fraction of the time should it come up a five? Explain your thinking using words, numbers, or pictures.

4P-14)

Lane read 5 books during his spring break. In order, he read books that were the following lengths: 125 pages, 278 pages, 97 pages, 114 pages, and 346 pages. What was the range of pages that he read? Write to help explain your best thinking using words, numbers, or pictures.

4P-13)

Bonnie went to the grocery store to buy some soda pop. She noticed that different brand's cans contained varying amounts of pop. GatorDew cans contained 355 milliliters, SweetCola came in 360 milliliter cans, OkraCola was sold in 352 ml cans, and SugarUp came in 357 ml cans. What was the average size the four cans? Write to help explain your best thinking using words, numbers, or pictures.

4P-12)

Hans checked the temperature in his apple orchard at 10:00 P.M. His thermometer read 37°F . Hans kept checking his thermometer every hour for the next 8 hours and got these readings: 37° , 35° , 33° , 32° , 30° , 30° , 29° , 30° . What was the median temperature during this 8 hour period? Explain your thinking using words, numbers, or pictures.

4P-11)

List all of the two digit numbers that can be made using the numbers 3,4,7,and 9. Write to help explain your best thinking using words, numbers, or pictures.

4P-10)

Julia is dressing her new Barbie doll. She has 2 blouses, a red and a yellow. She has 3 skirts, a green one, a white one, and a blue one. She can dress Barbie in 6 ways. List the ways on your paper. Write to help explain your best thinking using words, numbers, or pictures.

4P-9)

Brad was dealing out the cards for Neal. After he dealt out 4 cards, he told Neal to turn them over. "Now," he said, "how many different four digit numbers can you arrange your cards in?" Neal had these four cards: 3, 5, 7, and 9. How many ways are there? Write to help explain your best thinking using words, numbers, or pictures.

4P-8)

Bonnie and her father and mother are going to the ball game. There are 12 different gates from the outside. Then there are 16 different stairways into the stadium. How many different ways can Bonnie and her mother and father go into the stadium? Write to help explain your best thinking using words, numbers, or pictures.

4P-7)

Sam is going to the beach. He is looking for a towel, a T-shirt, and something to play with. He finds three T-shirts: red, green, and blue. He finds three towels: striped, plaid, and dotted. He finds three things he can play with at the beach: a frisbee, a kite, and a ball. He picks out one towel, one T-shirt, and one thing to play with. What are all the different combinations of things he could choose? Write to help explain your best thinking using words, numbers, or pictures.

4P-6)

Holly needed 45 cents worth of stamps to send a letter to her pen pal. She looked at the stamps her mother had, and they were all 15-cent, 10-cent, and 5-cent stamps. How many different combinations of stamps could Holly put on her letter? Explain your thinking using words, numbers, or pictures.

4P-5)

Jenny and Joan are going to swim in the pool at the city park center. They can get into the building through four doors. Two of the doors open into the front locker room. The other two doors open into the back locker room. There are two different stairways from each locker room to the swimming pool. How many different paths can Jenny and Joan take from outside the city park center to the pool? Write to help explain your best thinking using words, numbers, or pictures.

4P-4)

Manuel and Grace can hear their friends' voices at the entrance to the cave. Manuel and Grace are exploring a small room at the back of the cave. There are four tunnels leading from the small room to the large room where water is dripping down the walls. In the large room there are four different stairways that Manuel and Grace can climb to join their friends at the entrance to the cave. How many different paths can Manuel and Grace take to get from the small room to their friends at the entrance? Explain your thinking using words, numbers, or pictures.

4P-3)

There are four fire trucks in Fast Fire Station: truck number 9, truck number 7, truck number 5, and truck number 3. When the station gets a fire call, two trucks leave the station. One of the trucks goes out first, the other one goes out second. For example, number 9 goes out first and number 7 goes out second; or number 7 goes out first and number 9 goes out second. What are all the different ways in which the four numbered trucks could come out of the station? Explain your thinking using words, numbers, or pictures.

4P-2)

How many different combinations of coins total exactly 31 cents? Write to help explain your best thinking using words, numbers, or pictures.

4P-1)

If you have 3 hats and 3 jackets, how many different combinations of a hat and a jacket can you wear? Explain your thinking.