

The Hidden Paw Third 50 Puzzles

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Sample Puzzles

Sample Puzzles from The Hidden Paw's Third 50 Puzzles

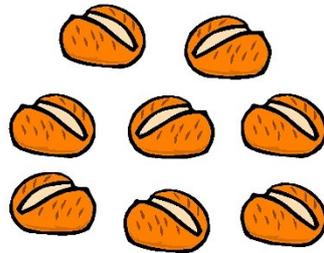
(Solutions are found at the end of this document).

Refer to www.thehiddenpaw.com to read about or purchase this eBook.

Puzzle 112: The Grateful Hunter

A hunter was hunting on his own. He ran out of food and got hungry. Soon, his problem was solved when he came upon two other hunters. One of them had 3 buns of bread while the other had 5. In true hunting solidarity, they offered to share their buns with him.

They sat down and divided the buns equally between the three. The hungry hunter was a gentleman too and he offered to pay for the buns. He only had \$8 and gave it all to them. They managed to divide it fairly.



How much did each of the two hunters get?

Puzzle 114: The Jack and Jill Race

Jack and Jill are in a 100 meter race. Jill won so that when she was crossing the finishing line, Jack was behind her by 10 meters, at the 90 meter point.

To humor him, Jill suggested another race giving him an advantage: she would start 10 meters behind the starting line. What will happen in the second race, will someone win or will it be a tie? If someone wins, can you find out by how many meters?

Puzzle 116: What is the Missing Number?

			45			
	64					
		?				
						12

Deduce what the missing number under the Question Mark should be.

Solutions

Solution 112: The Grateful Hunter

The answer that springs to mind first is 3 and 5. That is not correct as the hunters did not contribute equally to the hungry hunter's meal. Each of the 3 ate one third of the 8 buns or $8/3$. This is equal to 2 buns + $2/3$ of a bun. The hunter paid \$8 for his share only, i.e., $2 + 2/3$. In other words, he paid \$8 for $8/3$ buns or \$1 for each $1/3$ of a bun. Out of 3 buns, the first hunter ate $2 + 2/3$ and gave the hungry hunter $1/3$ of a bun. He therefore gets \$1. Out of the 5 the second hunter had, he ate $2 + 2/3$ and gave the hunter $2 + 1/3$ or $7/3$. He therefore got \$7.

Solution 114: The Jack and Jill Race

On the face of it, it looks like an even advantage. However, this is like the difference between a mark-up and a margin percent.

If both are running in the same way they did before, Jill will reach the 90 meter mark having run 100 meters. In the previous race, when she did that, Jack was also at the 90 meter mark. They now both have to run the last 10 meters starting from the 90 meter mark. But we know that Jill is faster so she will win the race. (Jill ran 100 meters in the time Jack ran 90, so she is $100/90 = 1.11$ times faster than Jack). She can do 10 meters in $1/1.11$ of the time, or we can say that Jack will be $10/1.11$ meters behind her. Since $10/1.11 = 9.009$ then Jack will be 0.99 meters behind Jill.

Solution 116: What is the Missing Number?

We need to look for a pattern that is common to the 3 numbers. There are enough of them to intrigue you, but not enough to give the solution away. Most would start by adding and subtracting which will get them nowhere. So get out of the box and think of each number as two digits. You will get an AHA when you realize that the tens digit signifies the cell's distance in squares from the right side. The units digit signifies the cell's distance in squares from the bottom. So a number in a cell is its address in the matrix. For example, the cell containing the number 45 is in the 4th column from the right and the 5th row from the bottom. Looking at the "?", it is in the 5th column from the right and the 3rd row from the bottom. The answer is 53.