1. Jason decided to play a game. He put 64 chips in a shoe box. He then began tossing a coin. If the coin came up heads, he would increase the number of chips by ½. If it came up tails, he would decrease the chips in the box by ½. The first toss came up heads, the second tails, the third heads, and the fourth tails. There are now _____ fewer chips in the shoe box.

   28. He starts with 64 and must add 32 when he gets heads, making it 96. He then gets tails and must subtract half of 96, so he then has 48. The third time is heads, so he must add half of 48, so he now has 72. The last flip is tails, so he must take out half of 72, which is 36. He started with 64 and now has 36, so there are 28 fewer in the box. (64 – 36)

2. Renee, Sally, Tess, and Wilma all sank foul shots in a basketball game. Tess sank half as many as Renee. Sally sank 3 times as many as Wilma who only sank half as many as Tess. Renee sank 8 foul shots. How many were sunk by all 4 girls together?

   20. If Renee had 8, then Tess had 4. This means that Wilma had 2 and Sally had 6. 8 + 4 + 2 + 6 = 20.

3. Find the smallest 4-digit number that is divisible by 2, 3, 4, and 5.

   1020. The number must be divisible by 60 if it is divisible by 2, 3, 4, and 5. 900, 960, 1020. 1020 is the smallest 4-digit number divisible by 2, 3, 4, and 5.