

Question from Tina Tran (27 Mar)

Johnny had 85 bags with a total of 330 gold coins. The bag contained 2, 4 or 5 gold coins each. The number of bags with 4 gold coins was equal to the number of bags with 5 gold coins. How many bags of each type were there?

Suggested Solution:

Assume all bags contained 2 gold coins

$$85 \times 2 = 170$$

$$330 - 170 = 160$$

$$160 \div 5 = 32$$

$$32 + 32 = 64$$

$$85 - 64 = 21$$

Ans:

2 gold coins : 21 bags

4 gold coins : 32 bags

5 gold coins : 32 bags

$$\text{Check: } (21 \times 2) + (32 \times 4) + (32 \times 5) = 330$$