



Name \_\_\_\_\_ Date \_\_\_\_\_

Mr. Mastery's Dog Food

Mr. Mastery, the owner of a pet store, sells dog food in 2 different sizes of bags. The prices for the two sizes are:

<b>Weight</b>	<b>Cost</b>
<b>3 pound bag</b>	<b>\$2</b>
<b>6 pound bag</b>	<b>\$4</b>

This morning Mr. Mastery needs to get an order ready for 60 pounds of dog food. He needs at least 4 bags of each size.

Complete the table below to show

- ♦ how many 3 pound bags and how many 6 pound bags Mr. Mastery needs
- ♦ the total weight of these bags
- ♦ the total cost of all the bags

<b>Number of 3-Pound Bags Needed:</b>	
<b>Number of 6-Pound Bags Needed:</b>	
<b>Total Weight of All the Bags:</b>	
<b>Total Cost of All the Bags:</b>	

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FIRST: Count by 3's for the 3-pound bags: 3 6 9 12 15 18 21 24 27 30

SECOND: Count by 6's for the 6-pound bags: 6 12 18 24 30 36 42 48 54 60

Then use "guess-and-check" to pick a 3-pound number (3, 6, 9, etc.) and a 6-pound number that together add up to 60 pound.

Example: 30 in first row is the 10<sup>th</sup> number, so that represents 10 bags  
 30 in the 2<sup>nd</sup> row is the 5<sup>th</sup> number, so that represents 5 bags

That makes 15 bags (10 + 5)

COST: 10 bags × \$2/bag = \$20

5 bags × \$4/bag = \$20

\$20 + \$20 = \$40 TOTAL COST

Example: 8 of the 3-pound bags = 24 pounds

6 of the 6-pound bags = 36 pounds

TOTAL POUNDS = 24 + 36 = 60 POUNDS

COST: 8 of the 3-pound bags × \$2/bag = \$16

6 of the 6-pound bags × \$4/bag = \$24

\$16 + \$24 = \$40 TOTAL COST

3 pounds × 6 bags = 18 lbs

6 pounds × 7 bags = 42 lbs

TOTAL POUNDS = 60 LBS

(18 + 42)

COST: 6 bags × \$2 = \$12

7 bags × \$4 = \$28

TOTAL COST = \$40