

Number
Unit 2 Line Master 12a

Comparing Dog Food Prices

Jhanel is comparing dog food prices.
Which bag has the better price?
Complete the questions to find out.



Blue Leaf Dog Food
6.8 kg for \$69.99



Green Leaf Dog Food
2.6 kg for \$29.99

Unit price is the price per unit.
It is calculated by dividing the price by the number of units.
Determining a unit price lets us compare prices of things sold in different quantities.

- For the dog food, the unit price is the price per kilogram.
Estimate the price per kilogram for each brand.
Explain how you made your estimates.

Comparing Dog Food Prices (cont'd)

2. You pay \$69.99 for 6.8 kg of Blue Leaf Dog Food.

So, the unit price is $69.99 \div 6.8$.

To calculate the unit price, you can use a scaling process like you used when multiplying decimals.

a) Write an equivalent division expression by multiplying each number by 100.

b) Use the division algorithm and your equivalent division expression from part a) to determine the unit price for Blue Leaf.



To check if your answer is reasonable, compare it to your estimate from Question 1.

Comparing Dog Food Prices (cont'd)

3. You pay \$29.99 for 2.6 kg of Green Leaf Dog Food.

a) Write a division expression for the unit price.

b) Write an equivalent division expression by multiplying each number by 100.

c) Use the division algorithm and your equivalent division expression from part b) to determine the unit price for Green Leaf.

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To check if your answer is reasonable, compare it to your estimate from Question 1.

Name _____ Date _____

Number
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Comparing Dog Food Prices (cont'd)

4. a) Which brand has the lower unit price?

b) What factors other than price might affect which bag of dog food Jhanel buys?