Mathematics 6
Worksheet Quarter 1
Week 5

Name: _____Gr./Sec: _____ Teacher: _____

a. Multiply decimals and mixed decimals with factors up to 2 decimal places
b. Multiply mentally decimals up to 2 decimal places by 0.1, 0.01, 10 and 100
c. Solves routine and non-routine problems involving multiplication of decimals and mixed decimals including money using appropriate problem solving strategies and tools.



Mrs. Nardo spends ₱ 135.50 for food each day. How much does she spend in 12 days?

POLYA'S STEP

❖ Understand

What is asked? the amount Mrs. Nardo spent in 12 days
What are given? ₱ 135.50 for food each day, 12 days

❖ Plan

What is the operation to be used? Multiplication
What is the number sentence? 135.50 x 12 = N

❖ Solve

Multiply

135.50 X 12 =

Math Rule 1: Write the decimal numbers vertically.

Multiply

135.50
X 12
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Math Rule 2: Multiply the decimal numbers like whole numbers.

Multiply

| | | | | | | |
|---|---|---|---|---|---|---|
| | 1 | 3 | 5 | . | 5 | 0 |
| | | | X | | 1 | 2 |
| | 2 | 7 | 1 | | 0 | 0 |
| 1 | 3 | 5 | 5 | | 0 | |
| | | | | | | |

Math Rule 3: Add the partial products.

Multiply

| | | | | | | |
|---|---|---|---|---|---|---|
| | 1 | 3 | 5 | . | 5 | 0 |
| | | | X | | 1 | 2 |
| | 2 | 7 | 1 | | 0 | 0 |
| 1 | 3 | 5 | 5 | | 0 | |
| 1 | 6 | 2 | 6 | | 0 | 0 |

Math Rule 4: Count the decimal places of the factors and put the decimal point at the appropriate place.

Multiply

| | | | | | | |
|---|---|---|---|---|---|---|
| | 1 | 3 | 5 | . | 5 | 0 |
| | | | X | | 1 | 2 |
| | 2 | 7 | 1 | | 0 | 0 |
| 1 | 3 | 5 | 5 | | 0 | |
| 1 | 6 | 2 | 6 | . | 0 | 0 |

The product of 135.50 X 12 is 1626.

LIVEWORKSHEETS

❖ Look back Mrs. Nardo spends ₱ 1626.00 in 12 days.

Other examples :

| Problem 1:<br>My mother gave me 50 centavos. My father gave me 2.5 times as much. My grandmother gave me 3.5 times as much. How much money do I have now? | Problem 2:<br>In the farm, there are 12 hens and 1.75 times more roosters than hens. There are also 2.5 times as much chicks than hens. How many animals are in the farm? |
|---|---|
| Mother - ₱ 0.50<br>Father - ₱ 0.50 x 2.5 = ₱ 1.25<br>Grandmother - ₱ 0.50 x 3.5 = ₱ 1.75<br>The amount I have now is ₱ 3.50 | Hens - 12<br>Roosters – 12 X 1.75 = 21<br>Chicks - 12 X 2.5 = 30<br>There are 63 animals in the farm. |

➢ Exercise #1

Refer to the table for foreign currency exchange rate.

| Country | Currency | Value in Philippine Peso (Php) |
|---|---|---|
| USA | US dollar (USD) | 48.55 |
| India | Indian Rupee (INR) | 0.66 |
| Malaysia | Ringgit (MYR) | 11.69 |
| Thailand | Baht (THB) | 1.55 |
| Hongkong | Hongkong Dollar (HKD) | 6.26 |

a. Supposed you bought a dress worth USD 25, sunglasses worth INR 900, and a pair of pants worth MYR 95. What would be the total cost in Philippine peso?
b. Which will buy more, HKD 150 or THB 400? By how much?

➢ Exercise #2 Find the product.

1) 3 x 0.1
2) 13 x 0.01
3) 54.8 x 10
4) 89.7 x 10
5) 635.89 x 1000

➢ Exercise #3 Solve the problem. Follow the 4 step plan.

1)Jason earns P380.65 daily. His sister earns 1.5 times what he earns daily. How much does his sister earn in a day?

2)If 1 metre of cloth costs P72.95, how much would 6.5 metres cost?

LIVEWORKSHEETS