The MEx Club

By Lory Lopez

Twins Mekko and Mella were playing Money Exchange.

"MEx club is now open!" Mekko called.

"Please change my 100 pesos," requested Mella.

"Is 100 pieces of one peso coins okay?" asked Mekko.

"That is too many," said Mella.

"How about ten pieces of ten peso coins?" suggested Mekko.

"Ten coins are still heavy for my pocket," answered Mella.

"Then two fifty peso bills?" said Mekko.

"Uhm . . . can I have five twenties?" asked Mella.

Mella thought for a while and realized something. "Wow! Those are just four ways to change a hundred pesos using one money value!" she said.

 × 1 =  × 100

=  × 10

=  × 5

=  × 2

"As the value goes up, there are lesser pieces of it. Whole numbers are used for every peso," said Mekko.

"Oh, I need some coins to buy candy. Please change this 20-peso bill."

"Okay. Here are all kinds of coins." Mekko carefully counted.

 × 1 =

 × 1 = ₱ 10.00

 × 1 = ₱ 5.00

 × 4 = ₱ 4.00

\+  × 2 = ₱ 0.50

 × 4 = ₱ 0.40

 × 2 = ₱ 0.10

Total amount = ₱ 20.00

See that counting centavos and decimals are the same.

 × 1 =  × 4

=  × 10

=  × 20

Philippine money

Coins:

 = 0.05

 = 0.10

 = 0.25

 = 1.00

 = 5.00

 = 10.00

Paper:

 = 10.00

 = 20.00

 = 50.00

 = 100.00

 = 200.00

 = 500.00

 = 1000.00

Try This!

I. Play MEx!

1. Think of three other ways to change Mella's 100 pesos using the different denominations.
   a. If we use only one bill denomination, which denomination would need the least number of bills?
   b. Which would need the most?
   c. Which denomination would need the least number of coins?
   d. Which denomination would need the most?

2. How about changing P500.00?
   a. How many 100-peso bills do you need?
   b. How many 50-peso bills do you need?
   c. How many 20-peso bills do you need?

3. How about changing P1000.00?
   a. How many 500-peso bills do you need?
   b. How many 100-peso bills do you need?
   c. How many 50-peso bills do you need?

4. How will you break P5.00 using smaller denominations?

5. Using only 1-peso coins or 25-centavo coins, how many ways can you break P5.00?

II. Write the amount of money in each set. Compare and encircle the higher amount.

1.  + 6 ×  + 2 ×  = _____

    + 15 ×  + 2 ×  = _____

2. 3 ×  + 5 ×  = _____

   2 ×  + 2 ×  +

   1 ×  +  = _____

3. 8 ×  + 5 ×  = _____

   20 ×  + 1 ×  = _____

4. 5 ×  = _____

   20 ×  + 1 ×  = _____

5. 8 ×  + 6 ×  = _____

   9 ×  = _____

6. 7 ×  + 6 ×  +

   2 ×  = _____

4 ×  + 3 ×  +

10 ×  = _____

7. 3 ×  + 1 ×  +

8 ×  = _____

5 ×  + 7 ×  = _____

8. 14 ×  + 2 ×  = _____

25 ×  + 40 ×  = _____

9. 1 ×  + 6 ×  + 4 ×  = _____

2 ×  + 3 ×  + 1 ×  = _____

10. 1×  + 1 ×  +

7 ×  = _____

1 ×  = _____

III. Cross it: One side has a larger amount than the other. Tell which coin or bill should be remove to balance both sides. Write down the amount.

2 ×  , 2 ×  , 1 ×  , 5 × 	1 ×  , 4 ×  , 4 ×  , 7 × 
3 ×  , 2 ×  , 1 ×  , 10 × 	1 ×  , 2 ×  , 1 ×  , 6 ×  , 4 × 
6 × 	1 ×  , 3 × 
1 ×  , 6 ×  , 3 × 	3 ×  , 1 ×  , 5 × 
1 ×  , 2 ×  , 4 ×  , 2 ×  , 3 × 	4 ×  , 6 ×  , 4 ×  , 7 ×  , 1 × 

Answer Key:

I.

1) answers vary
   a) 50-peso bills
   b) 20-peso bills
   c) 10-peso coins
   d) 5-centavo coins
2) a) 5
   b) 10
   c) 25
3) a) 2
   b) 10
   c) 20
4) answers vary
5) 5 ways: $4 \times 1.00 + 4 \times 0.25$,
   $3 \times 1.00 + 8 \times 0.25$,
   $2 \times 1.00 + 12 \times 0.25$,
   $1 \times 1.00 + 16 \times 0.25$,
   20×0.25

II.

1. 16.50, 25.50
2. 300.25, 325
3. 2.50, 2.25
4. 250, 250
5. 8 120, 9 000
6. 670, 580
7. 2 900, 4 000
8. 140.25, 46.25
9. 57, 70.25
10. 290, 500

III. Cross it.

145.50	Take out one 0.25
Take out one 0.10	321.90
600.00	Take out one 50.00
650.00	Take out one 100.00
Take out one 20.00	780.75