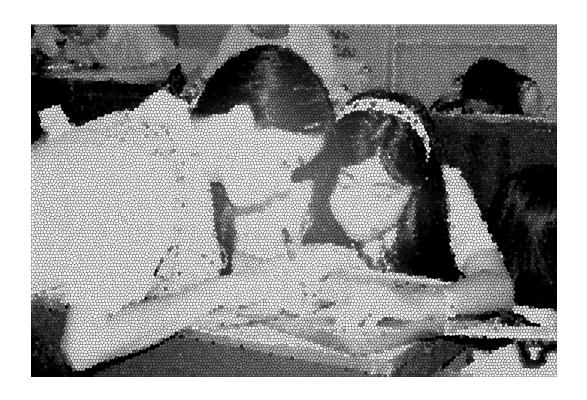
M A T H E M A C S

Modified In-School Off-School Approach Modules (MISOSA)

Distance Education for Elementary Schools SELF-INSTRUCTIONAL MATERIALS



MULTIPLICATION OF DECIMALS BY DECIMALS THROUGH HUNDREDTHS



Department of Education
BUREAU OF ELEMENTARY EDUCATION
2nd Floor Bonifacio Building
DepEd Complex, Meralco Avenue
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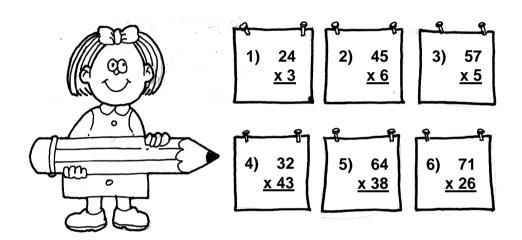


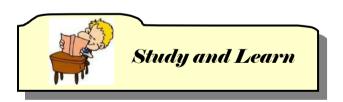
MULTIPLICATION OF DECIMALS BY DECIMALS THROUGH HUNDREDTHS

Objective: Multiply decimals by decimals through the hundredths place



Find the product in each.





Arnold had a plot garden. What is its area if the length is 0.85 m and the width is 0.4 m?

To find the area of the plot garden, we multiply 0.85 by 0.4.





To solve for 0.85 x 0.4, follow the steps below.

1. Multiply the numbers as you	0.85	
would multiply whole	x 0.4	
numbers. Regroup if	0.340	
necessary.		

2. Count the number of decimal places of the factors. 0.85
$$\leftarrow$$
 2 decimal places \times 0.4 \leftarrow 1 decimal place 0.340 \leftarrow 3 decimal places in all

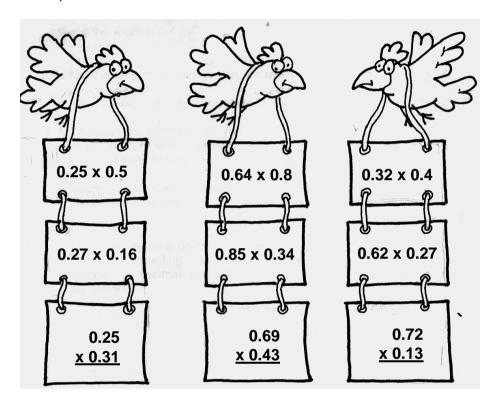
Here are other examples for you to study.

Use zero as placeholder whenever necessary.





Find the product in each case.





To multiply decimals by decimals through the hundredths place, follow these steps:

- Multiply in the same way as you would multiply whole numbers. Regroup if necessary.
- Count the decimal places in the factors.
- Place the decimal point in the product according to the number of decimal places in the factors.







On Your Own

Find the product.

- 1) 0.06 x 0.72 =
- 2) 0.85 x 0.3 =
- 3) $0.37 \times 0.40 = \square$
- 4) $0.63 \times 0.42 =$
- 5) 0.53 x 0.15 =
- 6) 0.79 <u>x 0.06</u>
- 7) 0.55 <u>x 0.23</u>
- 8) 0.63 <u>x 0.21</u>
- 9) 0.87 x 0.75
- 10) 0.19 <u>x 0.73</u>

Check your answer with the answer key.

If you get...

- 8-10 Excellent! You may now proceed to the next lesson.
- 5-7 You need to review the processes you missed.
- O-4 You need to repeat the whole process. Ask your teacher or elder to help you.





Key to Correction MULTIPLICATION OF DECIMAL BY DECIMAL THROUGH HUNDREDTHS

REVIEW

- 1) 72
- 2) 270
- 3) 285
- 4) 1376
- 5) 2 432
- 6) 1846

TRY THESE

Α	В	С
0.125	0.512	0.128
0.0432	0.2890	0.1674
0.0775	0.2967	0.0936

ON YOUR OWN

- 1) 0.0432
- 2) 0.255
- 3) 0.148
- 4) 0.2646
- 5) 0.0795
- 6) 0.0474
- 7) 0.1265
- 8) 0.1323
- 9) 0.6525
- 10) 0.1387

