Math 7   Name:_____
Ikari

Decimals Unit Review

This review will cover everything you should expect to see on the Decimals Unit Test. Please show all work.

1. Please **add** the following:
     Rules: -   Remember to LINE UP your decimals.
                 -   Put zeroes into empty spaces when necessary.
                 -   Add down the column (starting from the right-most column).
                 -   Carry your numbers when necessary.

     a. $13.25 + 0.825 =$ b. $123.4 + 9.231 =$

     c. $0.997 + 0.005 =$ c. $186.5 + 0.6 =$

2. Please **subtract** the following:
     Rules: -   The question must be written with the first term on the top (order matters!)
                 -   Remember to LINE UP your decimals.
                 -   Put zeroes into empty spaces when necessary.
                 -   Subtract down the columns (starting from the right-most column)
                 -   Borrow from the next column when necessary.

     a. $18.97 - 4.21 =$ b. $11.11 - 0.137 =$

c. 0.137 – 0.05 =   d. 124 – 0.37 =

3. Please **multiply** the following:

Rules: -   Ignore the decimals until the end.
-    Remember to multiply starting from the right most number. (Multiply each top row number by that number and carry when necessary)
-    When you move to the next number, remember to put your place holder zero.
-    Once all numbers are multiplied, add your numbers together.
-    Count the number of decimal places in your question and put that many decimal places in your answer (remember to count from the right).

a. 14.2 x 2.3 =   b. 5.3 x 10.4 =

c. 162.2 x 0.071 =   d. 0.00312 x 0.86 =

4. Please **divide** the following:

> **Rules:** - Move the decimal places by the same amount to get rid of any decimals in the divisor (the number after the division sign).
>
>> Example: 0.123 ÷ 0.3 =
>>
>> = 1.23 ÷ 3
>
> - Set up your question so that the divisor is on the outside
>
>> Example: 1.23 ÷ 3
>>
>> _____
>> 3)1.23
>
> - See how many times the divisor goes into the dividend starting from the left.
> - Subtract that amount from the dividend and then bring down the next number.
> - From your new number, see how many times the divisor goes into it.
> - Continue until there is no remainder
> - Remember the decimal goes right above where it is in the question
>
>> Example:

```
     0.41____
   3)1.23
    -0↓ ↓
     12 ↓
   - 12 ↓
     03
    - 3
     0
```

a. 1.234 ÷ 0.02 =   b. 27.6 ÷ 0.3 =

c. (-0.2849) ÷ (+0.007) =   d. 5.123 ÷ 0.5 =

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5. Please do the following **order of operations** questions. Please show all your work.
         Rules:
                  Remember to show all your work on the side for each step.
                  Answer the questions in this order **(B) E² DM AS**
                                    → →

$9.7 - (1.8)^2 \div (2.3 + 6.7)$	Work:
$[\, 8.7 - (1.6)^2 \,] \times 1.5 + 4.7$	Work:
$[\, 5.4 \times 4.4 - (2.4)^2 \,] \div 1.6$	Work:
$1.8 \div 1.2 \times (5.3 + 2.5)^2$	Work: