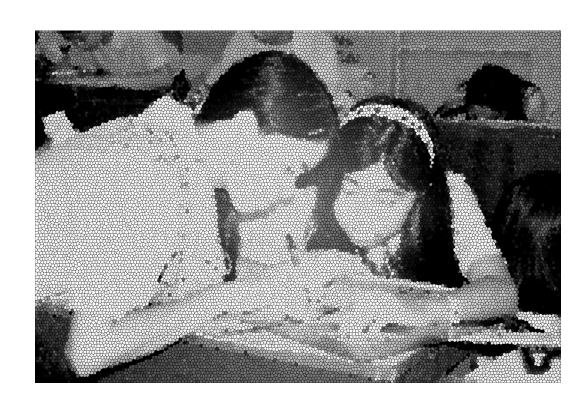
Μ Α Τ Η Ε Μ Α Т С S 5

Modified In-School Off-School Approach Modules (MISOSA) Distance Education for Elementary Schools SELF-INSTRUCTIONAL MATERIALS



DIVISION OF DECIMAL



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

Revised 2010

by the Learning Resource Management and Development System (LRMDS), DepEd - Division of Negros Occidental under the Strengthening the Implementation of Basic Education in Selected Provinces in the Visayas (STRIVE).

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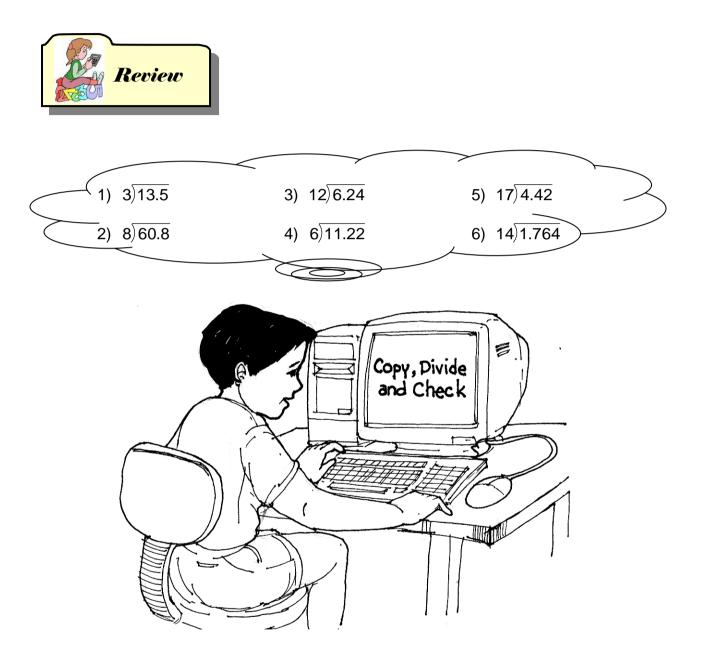
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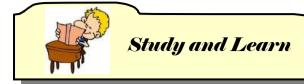
DIVISION OF DECIMALS

Objective: Divide decimals by decimals in the hundredths place









The Bakers' Bakery is famous for its chocolate muffins which its bakers bake each morning. They use 13.52 kilograms of flour everyday. How many days will 283.92 kilograms of flour last?

Let's analyze the problem:

- What is asked in the problem? number of days 283.92 kg of flour will last
- What are the given facts? 13.52 kg, 283.92 kg
- What operation is to be used? *division*
- What mathematical sentence is appropriate? 283.92 ÷ 13.52 = n
- How do we divide a decimal by another decimal?

Steps in dividing decimals by decimals:

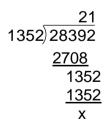
1. Multiply the divisor by a power of ten that makes it a whole number.

13.52	\rightarrow	1352
<u>x 100</u>		
1352.00		

2. Multiply the dividend by the same power of ten.

283.92	\rightarrow	28392
<u>x 100</u>		
2839.00		

3. Divide.



4. Check by multiplication.





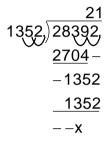
Another procedure in dividing decimals by decimals.

1. Move the decimal point in the divisor to the right to make it a whole number.

$$13.52 \rightarrow 1352$$

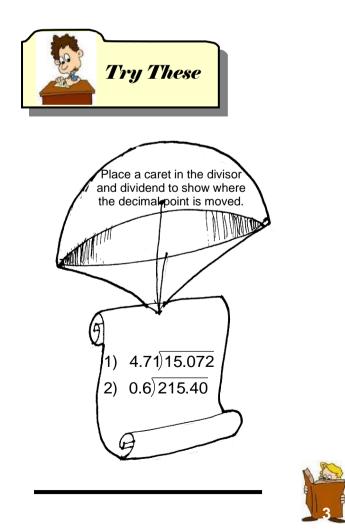
2. Move the decimal point in the dividend to the right according to the number of places the decimal point in the divisor has been moved.

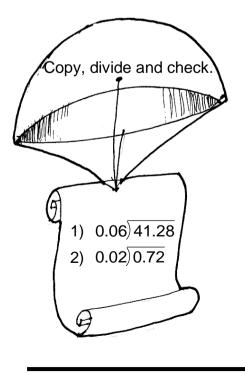
3. Divide the decimals as you would divide whole numbers.

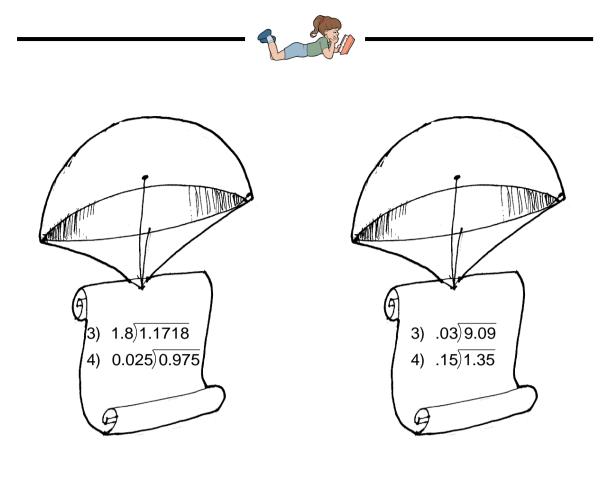


A caret (^) shows where the decimal point has been moved.

4. Check by multiplication.









In dividing decimals by decimals:

- Multiply the divisor by the power of ten that makes it a whole number. Or, simply move the decimal point to the right to make it a whole number.
- Multiply the dividend by the same power of ten or simply move the decimal point to the right depending on the number of decimal places the decimal point in the divisor has been moved.
- Divide the decimals as you would divide whole numbers.







Copy, divide.

- 1. 0.04)27.24
- 2. 0.03)12.84
- 3. 0.27)0.54
- 4. 0.08)50.56
- 5. 0.19)12.35

Check your answer with the answer key. If you get...

- 4-5 Excellent! You may now proceed to the next lesson.
- 3 You need to review the processes you missed.
- 0-2 You need to repeat the whole process. Ask your teacher or elder to help you.





Key to Correction DIVISION OF DECIMALS

REVIEW

ON YOUR OWN

4) 632

5) 65

- 1. 4.51) 6812. 7.62) 4283. 0.523) 2
- 4. 1.87
- 5. 0.26
- 6. 0.126

TRY THESE

Α.

- 1) 4.71)15.072
- 2) 0.6)215.4
- 3) 1.8)1.1718
- 4) 0.025)0.975

В.

- 1) 688
- 2) 36
- 3) 303
- 4) 9

