

Dividing Decimals Study Guide

Here is a little reminder of what we learned this chapter. Please have your math workbook with you to look over some of these concepts as you study.

3 methods for division on page 147

- *Place Value Sections* uses boxes to help us organize our work
- *Expanded Notation* helps us visualize the different place values when dividing
- *Digit-by-digit* is the method most of us, but be careful to keep your numbers organized
- *Please ask for graph paper during the test if you do not have small or neat handwriting! This will help you keep track of all your numbers.*
- *For practice: write the division problem and complete the work for problems 26, 27, and 28 on page 150*

26.

27.

28.

Dividing by Two-Digit Whole Numbers

- Again, all 3 methods can be used to complete this division
- Remember, we used a trick to help us with this division. We rounded the divisor to an easier number to help us decide *about* how many times the divisor goes into the dividend.
- *For practice: Complete the problems 5 and 6 on pages 152 below. It is ok to leave answers with a remainder.*

5.

6.

Interpret Remainders on page 155- 160

- Answers to division story problems can be written many ways:
 - Ignore the Remainder *example #1 on pg. 155*
 - Round Up *example #2 on pg. 155*
 - Form a Fraction *example #3 on pg. 155*
 - Form a Decimal *example #4 on pg. 156*
 - Use the Remainder Only *example #5 on pg. 156*
- *For practice complete any unanswered story problems throughout pages 155-160*

Dividing with Decimals beginning on pg. 161

- When there is only a decimal in the dividend, simply divide like normal, carefully placing the decimal in the same spot in the quotient as it was in the dividend
- Division problems should no longer have a remainder as part of their quotient
- *For practice complete problems 14-16 on pg. 163 below*

14.

15.

16.

Divide with Two Decimal Numbers on pg. 174

- Both the dividend and divisor must have the decimal shifted until there is a whole number being used as the divisor
- Multiply both numbers by 10, 100, 1,000 etc. until the problem contains no 0 in its divisor
- *See problems 17-19 on page 174 for practice*
- *Also see **Puzzled Penguin** in this section to test your understanding*

17.

18.

19.

Puzzled Penguin answer:

Decimal Shifts

- Remember, dividing by a power of 10 is going to shift the decimal to become a larger quotient
- Dividing by a decimal is going to shift the decimal to the right, making your quotient become smaller.
- *See problems on pg. 178 to practice putting this into words*

Good luck on your test Wednesday! Come see me with any questions or concerns!