Topic 6 Test

Study Guide

*1.) Review Lesson 6-1*

* Be able to mentally multiply decimals by 10, 100, 1000.
* Recognize that there is a pattern in this multiplication – moving the decimal to the right based on the number of zeroes.

*2.) Review Lesson 6-2*

* Review the definition of compatible numbers when it comes to rounding.
* Be able to use rounding and compatible numbers to round decimals and then estimate the product.
* When rounding, remember to round the farthest place value – zero isn’t a value!

(EX: 0.681 round to 0.7, not 1.0)

*3.) Review Lesson 6-3*

* Understand what products should reasonably look like when multiplying decimals.
* Understand that:
* A decimal times a decimal will equal a product that is a SMALLER decimal
* A decimal times a whole number or a mixed decimal will equal a product that is SMALLER than the whole number
* A mixed decimal times a whole number or another mixed decimal will equal a product larger than the two factors.
* Be able to using reasoning and number sense to figure out where a decimal should go, logically, based on these patterns.

*4.) Review Lesson 6-4*

* Be able to find the products of whole numbers and decimals out to the thousandths place value.
* Understand that models can be used to demonstrate this process.

*5.) Review Lesson 6-5*

* Be able to apply your understanding of the STANDARD ALGORITHM in multiplication to multiply a whole number and a decimal.
* Remember to count your decimal places, and move the decimal over that many times.

(EX: 4 x 0.344… ignore the decimals and just multiply 4 x 344 = 1376, then move the decimal to the left 3 times = 1.376, which makes sense because A decimal times a whole number or a mixed decimal will equal a product that is SMALLER than the whole number)

*5.) Review Lesson 6-6*

* Be able to apply your understanding of the STANDARD ALGORITHM in multiplication to multiply two decimals.
* Remember to count your decimal places, and move the decimal over that many times.

(EX: 0.04 x 0.344… ignore the decimals and just multiply 4 x 344 = 1376, then move the decimal to the left 5 times = 0.01376, which makes sense because a decimal times a decimal will equal a product that is a SMALLER decimal

*6.) Review Lesson 6-7*

* Be able to solve multi step word problems that involve decimals. Be able to use bar pictures to support answers.

*Pages 162 - 163 provide excellent reteaching opportunities if you are confused!!!* ***Pages 164-165 provide a practice test. Turn it in for extra credit on your test!!!***