Name	MATH 3161	Date	
Dividing, Comparing, and Ordering R	ational Numbers		
1. Reviewed the Original DCO Worksheet and Ans	swer Key	□ yes	□ no
2. In the space below, write a story using what you integers to go with the equation: $\frac{5}{8} \div \frac{1}{2} = n$ .	know about the division	of whole number	s and
3. If $7\frac{1}{2}$ yards of fabric are enough to cover $\frac{3}{4}$ of A to cover the whole wall? Draw a picture to mod			is needed
<ul><li>4. Find some counter examples to show that division associative.</li><li>a.</li></ul>	on of rational numbers is a b.	not commutative	or
5. Use each of the methods that follow to find the ca. multiplying by the reciprocal method	quotient for $\frac{3}{7} \div \frac{2}{5}$ . Show a b. <b>common denominat</b>		
c. complex fraction method	d. missing factor meth	od	
6. Find the quotient for each of the following using decimal form and <b>verify</b> your answers.  a. <b>0.3245</b> ÷ <b>0.005</b>	the procedure for dividing $b. 1.4 \div 0.05$	ng rational numbe	ers in

7. Why is the ability to estimate reasonable answers important when you are dividing decimals?

8. What **estimation strategies** would you use to determine whether your **answers to question 6** are **reasonable**?

a.

b.

c.

d.

9. Verify that  $\frac{4}{9} < \frac{5}{11}$  by using:

a. estimation or models

b. common denominators

c. a calculator and place value

d. the definition of greater than

10. Which **method of comparison** did you find most useful in **question 9 above**? Under what conditions might **each method** be **more useful** than the others?

11. Give three rational numbers between  $\frac{7}{12}$  and  $\frac{8}{12}$  in simplest form in the  $\frac{a}{b}$  form.

12. Give three rational numbers between  $0.\overline{7}$  and  $\frac{7}{10}$  in the decimal form.

13. What strategies did you use to find the rational numbers in questions 11 and 12?

14. Convert 0.72348 into a fraction in simplest form.