The excerpt below was taken from Extending Children’s Mathematics: Fractions and Decimals (Empson and Levi) Page 171

*“Here are some problems to use with your students to develop their understanding of decimals. The problems are roughly arranged from least to most sophisticated with the exception that the word problems K through N have number choices that influence their difficulty. Refer to the instructional guide on page 174 for suggestions for choosing problems for your grade level.”*

All problems included in this document are from pages 171 – 172

**Formatting Note for Teachers**: These problems are from Extending Children’s Mathematics: Fractions and Decimals (Empson and Levi) and formatted so that they can be used in an interactive notebook.

Follow these steps for an easy way to make use of this document:

* Decide which problem is developmentally appropriate for your students
* Right click on the text box of the problem of your choice to highlight it
* Click “copy”
* Go to “File” and click “New” to open a blank word document
* Right click anywhere on this new page and click “paste” and the textbox with your problem will appear
* Continue to paste (and position) the same problem on the page until it is full – then copy and cut out for students to glue in their interactive notebooks
* Pose the problem…analyze student work…choose a new problem…repeat!

Because this document is a Microsoft Word document, you can edit the problems below to best meet the needs of your students.

A. Selena has 6 bags of books with 10 books in each bag. How many books does Selena have?

afdf

C. Jose has 24 boxes with 10 rocks in each box. How many rocks does Jose have?

B. I have 84 potatoes. 10 potatoes fit in each bag. How many bags would it take to hold all of my potatoes?

D. Ms. Gomez has 359 dollars. She wants to use this money to buy teddy bears for the children’s hospital. If each teddy bear costs 10 dollars, how many teddy bears could she buy?

F. The pencil factory makes 3,875 pencils a day. They put the pencils into cartons with 100 pencils in each carton. How many cartons of pencils do they make in one day?

E. The pencil factory makes 3,875 pencils a day. They put the pencils into boxes with 10 pencils in each box. How many boxes of pencils do they make in 1 day?

G. Julie has 6 huge candy bars. If she eats candy bar each day, how long will these 6 huge candy bars last?

H. The bakery has 58 pounds of frosting. It takes pound of frosting to frost a cupcake. How many cupcakes could the bakery frost with the frosting they have?

I. Henry uses package of cinnamon in each batch of cinnamon cookies he makes. If Henry has 3 packages of cinnamon, how many batches of cookies can he make?

J. Juan uses 0.1 pound of flour to make a batch of cookies. How many batches of cookies can he make with 3.75 pounds of flour?

K. Hayley has \_\_\_\_\_ boxes of candy with \_\_\_\_\_ pounds of candy in each box. How many pounds of candy does Hayley have?

(4, 10) (57, 10) (4, 0.1) (57, 0.1) (364, 0.1)

L. Cameron has \_\_\_\_\_ pounds of clay. It takes \_\_\_\_\_ pounds of clay to make an art project. How many art projects could Cameron make with his clay?

(80, 10) (630, 10) (5, 0.1) (12, 0.1)

M. There are \_\_\_\_\_ students in Mr. Jones’ art class. Mr. Jones is planning a project where each student will need \_\_\_\_\_ jars of paint. How much paint will Mr. Jones need altogether?

(15, 10) (15, 0.1) (25, 0.3)

N. My pet eats \_\_\_\_ jars of applesauce each day. How many days would it take my pet to eat \_\_\_\_ jars of applesauce?

(10, 56) (0.1, 8) (0.1, 23.4)