3.1.5 Is there a more efficient way?

Completing the Web



3-67 CONVERTING BETWEEN PERCENTS AND DECIMALS

a) Work with your team to complete the t-chart at right.

76%	100%
120%	32.5%

7 Le nths hundred edths 2 2 O

b) Now reverse your thinking to rewrite the following decimals as percents.

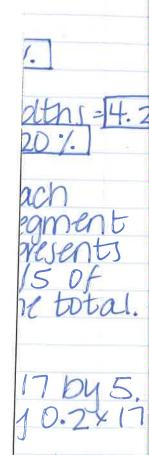
0.31	0	1.16
0.06	0.042	45.2

3-68 CONVERTING FRACTIONS TO DECIMALS

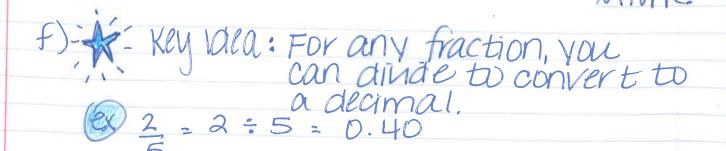
Julia knows that fractions are about finding parts, so she drew the segment below.



- a) Divide the line segment into five equal parts. Each mark you drew represents what fraction of the whole? Label the first mark with the appropriate fraction.
- b) The sections you made in part (a) each represent one (1) whole divided into five (5) parts. How can you use your calculator to find the decimal value for $\frac{1}{5}$? Add the appropriate decimal value label to the first mark on the diagram above.
- c) Julia is still trying to figure out what decimal to write for $\frac{3}{5}$. What should she write?
- d) What if Julia was thinking about $\frac{17}{5}$? How can she use her knowledge of the decimal value of $\frac{1}{5}$ to find the decimal value of $\frac{17}{5}$?
- e) How can you use the ideas in this problem to find the decimal value of $\frac{5}{8}$? $\frac{19}{4}$?
- f) Describe how to do this for any fraction.







3-67 a) 76% = 76 hundreaths = 100% = 1 whole = 1.00 tenths hundred 120% = 1 whole and 20 hundreaths 2 32.5/= b) 0.31 = 31 hundredths = 31% 1. 16 = Tand 1e hundreaths = [116%] 0.06 = le hundreaths = [6%] 0.042 = 4 hundredths + 2 thousandths = 14. 45.20 = 45 and 20 hundreaths = 14520% 3-68 a) Each seament represents b) 1:5 = [0.20] 1/5 OF the tota C) 3 ÷ 5 = 0.60 d) 17:5=[3.40] She could alinde 17 by 5. (she can also multiply 0.2 x 1 e) 5 = 8 = 0.625 You can divide the top 19 = 4 = 4.75 number by the bottom f)- Key Vala: For any fraction, you can divide to convert to a decimal.