



DIVIDING DECIMALS

MS. HARRIETHA - MATH

COMPATIBLE NUMBERS

Compatible Numbers: Use numbers that are easy to use mentally.

Ex: $27.94 \div 5 \approx 25 \div 5$ because 25 is a multiple of 5 ≈ 5

OR

$30 \div 5$ because 30 is a multiple of 5 ≈ 6

PRACTICE USING COMPATIBLE NUMBERS

a) $4.55 \div 5$

b) $3.63 \div 3$

c) $1.56 \div 4$

d) $9.8 \div 5$

e) $12.31 \div 2$

f) $56.093 \div 7$

g) $73.3 \div 5$

To divide a decimal by a whole number follow these steps:

1) Record the numbers without the decimal point.

2) Estimate: 7.938 is close to 8

1) $8 \div 2$ is 4

The answer will be a little less than 4 because we overestimated.

4) Check by multiplying:

$$3.969 \times 2 = 7.938$$

So the answer is correct.

$$\begin{array}{r} 3969 \\ 2 \overline{) 7938} \\ - 6 \\ \hline 19 \\ - 18 \\ \hline 13 \\ - 12 \\ \hline 18 \\ - 18 \\ \hline 0 \end{array}$$

PRACTICE

1) $3.24 \div 3$

Estimate: _____

Actual:

2) $11.25 \div 5$

Estimate: _____

Actual: