

Decimals Test Corrections

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#1

12.3450

Tens: 1

12.3450

Thousandths: 5

12.3450

Tenths: 3

12.3450

Hundredths: 4

12.3450

Ones: 2

12.3450

how we found it

Thousands

hundreds

tens

ones

tenths

hundredths

thousandths

ten-thousandths

hundred-thousandths

#2

Round 12.3450 to the...

Tenths: 12.3450

is the 4 bigger than 5? NO!

Round down to...

12.3

Ones: 12.3450

is the 3 bigger than 5? NO!

Round down to...

12

Hundredths: 12.3450

is the 5 bigger than 5? Yes!

Round up to...

12.35

#3 Fractions to Decimals

* Use your cheat sheet from Miss. Golob * (practice these & memorize)

$$\frac{1}{5} = .2$$

$$\frac{2}{3} = .\overline{66}$$

$$\frac{1}{9} = .\overline{11}$$

$$\frac{41}{100} = .41$$

$$\frac{3}{8} = .375$$

$$0.\overline{33} = \frac{1}{3}$$

$$0.8 = \frac{8}{10} \rightarrow \frac{4}{5}$$

$$0.75 = \frac{75}{100} \rightarrow \frac{3}{4}$$

$$0.9 = \frac{9}{10}$$

$$\frac{8 \div 2}{10 \div 2} = \frac{4}{5}$$

$$\frac{75 \div 25}{100 \div 25} = \frac{3}{4}$$

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#4 When adding and subtracting decimals

① start with bigger number

② Line up decimal points

③ Add in ghost zero's

④ Use regular addition or subtraction

$\begin{array}{r} .825 + .71 \\ + .71 \\ \hline 1.535 \end{array}$	$\begin{array}{r} .65 + .45 \\ + .45 \\ \hline 1.10 \end{array}$	$\begin{array}{r} .013 - .002 \\ - .002 \\ \hline .011 \end{array}$	$\begin{array}{r} .95 - .005 \\ - .005 \\ \hline .945 \end{array}$
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#5

When multiplying decimals...

- ① Set up as regular multiplication problem, ignore decimals
- ② Do regular multiplication
- ③ Write down how many digits came after the decimal points, add them together
- ④ From the end of the number move the decimal left however many digits you just got from adding

$$\begin{array}{r} .75 \times 3 \\ \overset{!}{.75} \rightarrow 2 \\ \times \quad 3 \rightarrow 0 \\ \hline 225 \quad 2 \end{array}$$

so 2.25

$$\begin{array}{r} .005 \times .35 \\ .005 \rightarrow 3 \\ .35 \rightarrow 2 \\ \hline 025 \quad 5 \end{array}$$

$$\begin{array}{r} 0150 \\ \hline 0175 \end{array}$$

so .00175

$$\begin{array}{r} .02 \times 1.3 \\ \times .02 \rightarrow 2 \\ \quad 1.3 \rightarrow 1 \\ \hline 06 \quad 3 \\ 020 \\ \hline 026 \end{array}$$

so .026

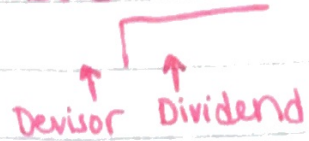
$$\begin{array}{r} 2 \times 1.7 \\ \times 1.7 \rightarrow 1 \\ \quad 2 \quad 0 \\ \hline 34 \quad 1 \end{array}$$

so 3.4

#6

When dividing decimals...

* Remember that



- ① If the divisor is not a whole number, move the decimal over to make it whole.
- ② Move the decimal point over the same number of decimal places as you moved it in the divisor in the dividend
- ③ Use long division to divide
 - ↳ Does McDonalds Serve Burgers?
- ④ Move decimal point directly on top in answer

$$500 \div 45$$

$$45 \overline{) 500}$$

$$\begin{array}{r} \times 11.11 \\ 45 \overline{) 500.00} \\ \underline{45 } \\ 050 \\ \underline{45 } \\ 50 \\ \underline{45} \\ 50 \end{array}$$

$$14 \div 0.6 = 23.3\overline{3}$$

$$0.6 \overline{) 14}$$

or $6 \overline{) 140.00}$

$$\begin{array}{r} \times 23.3\overline{3} \\ 6 \overline{) 140} \\ \underline{12 } \\ 070 \\ \underline{18 } \\ 20 \\ \underline{18} \\ 20 \end{array}$$

#6 continued

$$0.75 \div 0.5$$

$$0.5 \overline{) 0.75}$$

$$\text{so } 5 \overline{) 75}$$

$$\begin{array}{r} 1.5 \\ 5 \overline{) 75} \\ \underline{5} \\ 25 \\ \underline{25} \\ 0 \end{array}$$

$$\text{so } 1.5$$

$$0.5 \div 0.75$$

$$0.75 \overline{) 0.5}$$

$$\text{so } 75 \overline{) 50}$$

$$\begin{array}{r} \times \times 9 \overline{) 66} \\ 75 \overline{) 5000} \\ \underline{450} \\ 500 \end{array}$$

$$\text{so } 0.66$$

$$\begin{array}{r} 1 \\ 75 \\ \underline{75} \\ 150 \\ \underline{75} \\ 225 \\ \underline{75} \\ 300 \\ \underline{75} \\ 375 \\ \underline{75} \\ 450 \end{array}$$