

Decimals

Add: $4.35 + 32.1 + 213$

Line up the **DOTS**
not the numbers

$$\begin{array}{r} 4.35 \\ 32.1 \\ + 213. \\ \hline 249.45 \end{array}$$

Put the decimal to the right
of the whole number

WRONG

$$\begin{array}{r} 4.35 \\ 32.1 \\ + 213. \\ \hline \end{array}$$

Subtract: $347 - 2.32$

Line up the **DOTS**
not the numbers

$$\begin{array}{r} 347.00 \\ - 2.32 \\ \hline 344.68 \end{array}$$

Put the decimal to the right of the
whole number, then add 2 zeroes

WRONG

$$\begin{array}{r} 347. \\ - 2.32 \\ \hline \end{array}$$

Multiply: $3.1 \times .23$

In multiplication,
the dots don't
have to line up

$$\begin{array}{r} 3.1 \\ \times .23 \\ \hline 93 \\ 620 \\ \hline .713 \end{array}$$

3 numbers
behind the dots

Move the decimal
3 places to the left

Another
example:

$$\begin{array}{r} .31 \\ \times .23 \\ \hline 93 \\ 620 \\ \hline .0713 \end{array}$$

4 numbers
behind the dots

Move the decimal
4 places to the left

Divide:

$$5 \overline{)2.5}$$

$$\begin{array}{r} .5 \\ 5 \overline{)2.5} \end{array}$$

Put the dot for
the answer above
the dot in 2.5

$$.5 \overline{)2.5}$$

$$\begin{array}{r} 5. \\ 5 \overline{)25.} \end{array}$$

Move both dots
one place

$$.05 \overline{)2.5}$$

$$\begin{array}{r} 50. \\ 05 \overline{)250.} \end{array}$$

Move both dots
two places

Notice that 25 is a whole
number without a decimal

$$.05 \overline{)25}$$

$$\begin{array}{r} 500. \\ 05 \overline{)2500.} \end{array}$$

IMPORTANT:

Put the dot **BEHIND** the 25,
then move it 2 places