1. LINE UP THE H/T/O CORRECTLY.
2. START IV THE ONES COLUMY, ADD THE NUMBERS TOGETHER.
3. REPEAT IN THE TENS cOLUMN, ThEN ThE HUNDREDS COLUMN.
4. REMEMBER TO CARBY INTO THE NEXT COLUMN IF YOUR NUMBER GOES OVER 9.

ExAple

$$
\begin{array}{r}
123 \\
+\quad 342 \\
\hline 465 \\
\hline
\end{array}+\begin{array}{r}
588 \\
\hline 682 \\
\hline
\end{array}
$$



1. LINE UP THE H/T/O COPRECTLY.
2. START IV THE ONES COLUMN, SUBTRACT THE BOTTOM NUMBER FROM THE TOP NUMBER.
3. REPEAT IV THE TENS COLUMN, THEN THE HUNDREDS COLUMY.
4. REMEMBER TO BORROW FROM THE NEXT COLUMV IF NEEDED.

ExAMPLE

$$
\begin{aligned}
& 343 \\
& 123 \\
& 220
\end{aligned}
$$



$$
4158
$$



1. PLACE YOUR NUMBERS ONE ON TOP OF THE OTHER.
2. MULTIPLY THE BOTTOM NUMBE BY THE NUMBE DRECTLY ABOVE IT. RECORD THE UNIT IV THE ANSVER BOX AND CARPY THE TENS.
3. REPEAT WITH THE NEXT NUMBER ALONG AND THEN THE NEXT.
4. REMEMBER TO ADD IN THE CARRED TENS EACH TMME.

$$
243
$$

EXAMPLE

$$
\frac{3}{726}
$$



1. MULTIPLY THE BOTTOM NUMBE BY THE NuMBER DRECTLY ABOVE IT. RECORD THE UNIT IN THE ANSWER BOX AND CARRY THE TENS. REPEAT WITH THE OTHER DIGITS.
2. ADD A PLACE HOLDER BELOW.
3. USE THE NEXT DIGTT IV THE BOTTOM NUMBER TO MULTIPLY EACH OF THE TOP NUMBERS IN TURN.
4. ADD THE CARRED DIGITS
as you 60 along.
5. ADD THE TVO ANSWERS. 18 \& 4

$$
143
$$ ExaMPle

$$
\begin{aligned}
& 4290 \\
& 5134
\end{aligned}
$$



1. PLACE ThE DIGTS IV ThE BUS STOP.
2. DIVIDE THE FIRST DIGTT IN THE BUS STOP BY THE DIGIT OUTSIDE THE BUS STOP.
3. WRITE THE ANSVER ABOVE.
4. REPEAT WITh ALL THE DIGITS INSIDE THE BUS STOP.
5. IF THE NUMBER DOESN'T 'GO IN' THEN CARY THE DIGIT ACROSS.
6. THIS WORKS WITTH DECIMAL NUMBERS TOO!

EXAMPLE

$$
\begin{array}{r}
2104 \\
4 \\
\hline 8416
\end{array}
$$

## Long <br> 

1. DIVIDE
2. MULTIPLY
3. SUBTRACT
4. BRING DOUN
5. REPEAT UNTLL YOU GET TO O ZERO OR A REMAINDER.
6. CHECK YOUR ANSVER IS SENSIBLE!

ExAmPle



1. IF THE DENOMINATORS ARE THE SAME, SIMPLY SUBTRACT ON NUMERATOR FROM THE OTHER.

EXAMPLE

$$
\frac{5}{10}-\frac{3}{10}=\frac{2}{10}
$$

1. IF ThE DENOMINATORS ARE DIFFERENT THEN USE THE SMLLE AND A KISS METHOD.

$$
\frac{6}{10} \times \frac{2}{5}=\frac{30-20}{50}=\frac{10}{50}=\frac{1}{5}
$$



1. IF THE DENOMINATORS ARE THE SAME, sIMPLY ADD THE NUMERATOR TOGETHER.

EXAMPLE

$$
\frac{5}{10}+\frac{3}{10}=\frac{8}{10}
$$

1. If ThE DENOMINATORS ARE DIFERENT TheN USE THE SMLE AND A KISS METHDD.

$$
\frac{6}{10} \times \frac{4}{5}=\frac{30+40}{50}=\frac{70}{50}=1 \frac{2}{50}
$$



1. MULTIPLY THE NUMERATORS TOGETHER.
2. MULTIPLY THE DENOMINATORS TOGETHER.
3. SIMPLIFY IF NECESSARY.

ExAMPLE

$$
\frac{5}{10} \times \frac{4}{5}=\frac{20}{50}=\frac{2}{5}
$$



1. VHEV MLILTPLING A fraction by a Whale NUMEER YOU MUST TURN THE WHOLE NUMBER INTO A FRACTIOV. (THE NUMBER GUEE IS The NiMERHTOR, OVER I AS THE DEVMMMATOR.)
2. TheV carry out the Mutiplcatova as YOU NOBYALLY WOLLD: MLLTPLY THE WMMERATORS TOGETHER AND THEV MLLTPLY THE DENMMWATORS TOGETHER.

## EXAMPLE

$$
\frac{5}{10} \times 4=\frac{5}{10} \times \frac{4}{1}=\frac{20}{10}=2
$$



1. WheN DIVIDINg a fraction by a Whole NUMBER YOU MUST TURN THE WHOLE NUMBER INTO A FRACTION. (THE NUMBER GIVEN IS THE NUMERATOR, OVER I AS THE DENOMINATOR.)
2. NOW FLLP THE SECOND FRACTION (LIKE IN THE OTHEr METHOD) AND (CRY OUT A MULTIPLICATION.

ExAMPLE

$$
\frac{5}{10} \div 5=\frac{5}{10} \div \frac{5}{1}=\frac{5}{10} \times \frac{1}{5}=\frac{5}{50}=\frac{1}{10}
$$

1. FLIP THE SECOND FRACTION

Example $\frac{5}{10} \div \frac{4}{5}=$

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

2. MULTIPLY THE NUMERATORS TOGETHER
3. MULTIPLY THE DENOMINATORS TOGETHER.
4. SIMPLIFY IF NECESSARY.

EXAMPLE $\frac{5}{10} \div \frac{5}{4}=\frac{25}{40}=\frac{5}{8}$

