## Mathelpers

## Place the First Digit

When you use long division, it is important to place the first digit of the quotient in the correct place. You can use estimation and a place value to help you find where to place the first digit.

Tell where to place the first digit. Then divide.

$$
7 \longdiv { 1 4 7 }
$$

| - Use compatible numbers to estimate. |  |
| :--- | ---: |
| $147 \div 7$ is about the same as $140 \div 7$. | $14 \div 7=2$ |
| $-140 \div 7=20$, so the first digit is in the tens |  |
| place. | $140 \div 7=20$ |
| - Now place the first digit in the quotient in the |  |
| tens place and divide. | 7147 <br>  |
| $14 \downarrow$ <br> 007 <br> 7 <br> 0 |  |

So, the first digit is in the tens place, and $147 \div 7=21$.

## Mathelpers

Tell where to place the first digit. Then divide.

$$
667 \div 6
$$

| - See if the number in the hundreds place of 667 |
| :--- |
| is larger than 6 . |
| - If the number is smaller than the divisor, then |
| you begin at the next place to the right: the tens |
| place. |

- Here, 6 is equal to 6 , so the first digit will be in the
hundreds place. Now divide.

So, the first digit is in the hundreds place, and $667 \div 6=1 I I r \mid$

## Examples:

A- Divide.
D) $93 r 4$
$6 \longdiv { 5 6 2 }$
2) $\underbrace{}_{8 \longdiv { 7 8 5 }} 98 \mathrm{l}$
$-54$
22
$-72$
$-18$
65
04
$-64$

