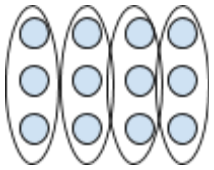
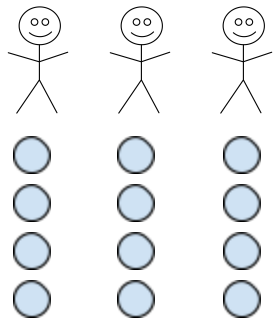
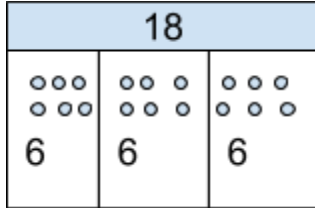

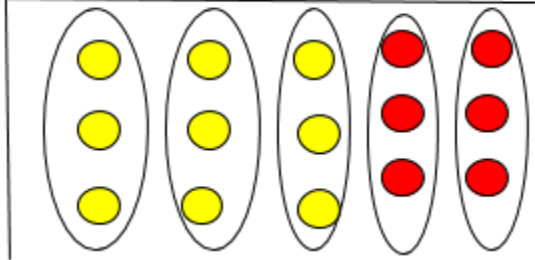


# Division Written Calculation Progression



<p><b>1</b> Grouping <math>12 \div 3 = 4</math></p> 	<p><b>Sharing</b> <math>12 \div 3 = 4</math></p> 	<p><b>2.</b> Division using Bar Model <math>18 \div 3 = 6</math></p> <p><b>Sharing</b></p>  <p><b>Grouping</b></p> 
<p><b>3</b> Division with Place Value Counters <math>96 \div 3 = 32</math></p> <p>Tens      Ones 3            2</p> 		<p><b>4.</b> Long Division</p> <p><math>11 \div 4 = 2 \text{ r}3</math></p> $\begin{array}{r} 02 \text{ r}3 \\ 4 \overline{) 11} \\ \underline{0} \phantom{1} \\ 11 \\ \underline{-8} \\ 3 \end{array}$ <p><math>52 \div 2 = 26</math></p> $\begin{array}{r} 26 \\ 2 \overline{) 52} \\ \underline{-4} \phantom{2} \\ 12 \\ \underline{-12} \\ 0 \end{array}$
<p><b>5</b> Short Division</p> $\begin{array}{r} 137 \text{ r}5 \\ 7 \overline{) 964} \\ \underline{-25} \phantom{4} \\ 214 \end{array}$ $\begin{array}{r} 1.38 \\ 3 \overline{) 4.14} \\ \underline{-4} \phantom{.1} \\ 12 \\ \underline{-12} \\ 0 \end{array}$		

**Step 1.** 
$$\begin{array}{r} 0 \\ 5 \overline{)365} \end{array}$$
 Start in the hundreds: 3 divided by 5  $\div$

**Step 2.** 
$$\begin{array}{r} 0 \\ 5 \overline{)365} \\ 0 \end{array}$$
 Above the division bracket:  $0 \times 5 = 0$  so it is placed below the hundreds  $\times$

**Step 3.** 
$$\begin{array}{r} 0 \\ 5 \overline{)365} \\ 0 \\ \hline 3 \end{array}$$
 Subtract:  $3 - 0 = 3$   
Small line drawn to show you have subtracted  $-$

**Step 4.** 
$$\begin{array}{r} 0 \\ 5 \overline{)365} \\ 0 \downarrow \\ \hline 36 \end{array}$$
 Bring the tens number down to regroup  $\downarrow$

**Step 5.** 
$$\begin{array}{r} 07 \\ 5 \overline{)365} \\ 0 \downarrow \\ \hline 36 \\ 35 \end{array}$$
 Back to division: 36 divided by 5 = 7  $\div$

**Step 6.** 
$$\begin{array}{r} 07 \\ 5 \overline{)365} \\ 0 \downarrow \\ \hline 36 \\ 35 \end{array}$$
 Above the division bracket:  $7 \times 5 = 35$  so it is placed below the tens  $\times$

4 stages to follow for long divisions

Divide  
Multiply  
Subtract  
Bring it down

$\div$   
 $\times$   
 $-$   
 $\downarrow$

**Vocabulary:**  
 365 = dividend  
 5 = divisor  
 073 = quotient  
 0 = remainder

**Step 7.** 
$$\begin{array}{r} 07 \\ 5 \overline{)365} \\ 0 \downarrow \\ \hline 36 \\ 35 \\ \hline 1 \end{array}$$
 Subtract:  $36 - 35 = 1$   $-$

**Step 8.** 
$$\begin{array}{r} 07 \\ 5 \overline{)365} \\ 0 \downarrow \\ \hline 36 \\ 35 \downarrow \\ \hline 15 \end{array}$$
 Bring the ones number down to regroup  $\downarrow$

**Step 9.** 
$$\begin{array}{r} 073 \\ 5 \overline{)365} \\ 0 \downarrow \\ \hline 36 \\ 35 \downarrow \\ \hline 15 \end{array}$$
 Back to division: 15 divided by 5 = 3  $\div$

**Step 10.** 
$$\begin{array}{r} 073 \\ 5 \overline{)365} \\ 0 \downarrow \\ \hline 36 \\ 35 \downarrow \\ \hline 15 \\ 15 \end{array}$$
 Above the division bracket:  $3 \times 5 = 15$  so it is placed below the ones  $\times$

**Step 11.** 
$$\begin{array}{r} 073 \\ 5 \overline{)365} \\ 0 \downarrow \\ \hline 36 \\ 35 \downarrow \\ \hline 15 \\ 15 \\ \hline 0 \end{array}$$
 Subtract:  $15 - 15 = 0$   $-$