

Name Jack

Date _____

1. Divide. Use number disks to model each problem.

<p>a. $324 \div 2$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">ff</td> <td style="text-align: center;">ff ff ff</td> <td style="text-align: center;">fff</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">..</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">..</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">..</td> </tr> </tbody> </table> <p style="text-align: right; margin-top: 10px;">} 1 hundred 6 tens = 162 2 ones</p>	hundreds	tens	ones	ff	ff ff ff	fff	<p>b. $344 \div 2$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">ff</td> <td style="text-align: center;">ff ff ff ff</td> <td style="text-align: center;">fff</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">..</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">..</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">..</td> </tr> </tbody> </table> <p style="text-align: right; margin-top: 10px;">} 1 hundred 7 tens = 17 2 ones</p>	hundreds	tens	ones	ff	ff ff ff ff	fff
hundreds	tens	ones																													
ff	ff ff ff	fff																													
.																													
.																													
.																													
hundreds	tens	ones																													
ff	ff ff ff ff	fff																													
.																													
.																													
.																													
<p>c. $483 \div 3$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">fff</td> <td style="text-align: center;">ff ff ff ff</td> <td style="text-align: center;">fff</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">.</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">.</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">.</td> </tr> </tbody> </table> <p style="text-align: right; margin-top: 10px;">} 1 hundred 6 tens = 161 1 one</p>	hundreds	tens	ones	fff	ff ff ff ff	fff	<p>d. $549 \div 3$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">hundreds</th> <th style="width: 33%;">tens</th> <th style="width: 33%;">ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">fff</td> <td style="text-align: center;">ff ff ff ff ff</td> <td style="text-align: center;">fff</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">...</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">...</td> </tr> <tr> <td style="text-align: center;">.</td> <td style="text-align: center;">..... .</td> <td style="text-align: center;">...</td> </tr> </tbody> </table> <p style="text-align: right; margin-top: 10px;">} 1 hundred 8 tens = 183 3 ones =</p>	hundreds	tens	ones	fff	ff ff ff ff ff	fff
hundreds	tens	ones																													
fff	ff ff ff ff	fff																													
.																													
.																													
.																													
hundreds	tens	ones																													
fff	ff ff ff ff ff	fff																													
.																													
.																													
.																													

2. Model using number disks and record using the algorithm.

<p>a. $655 \div 5$</p> <p>Number Disks</p> <table border="1"> <thead> <tr> <th>hundreds</th> <th>tens</th> <th>ones</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>•</td> <td>•••</td> <td>•</td> </tr> <tr> <td>•</td> <td>•••</td> <td>•</td> </tr> <tr> <td>•</td> <td>•••</td> <td>•</td> </tr> <tr> <td>•</td> <td>•••</td> <td>•</td> </tr> </tbody> </table> <p>1 hundred 3 tens = 131 1 one</p>	hundreds	tens	ones				•	•••	•	•	•••	•	•	•••	•	•	•••	•	<p>Algorithm</p> $\begin{array}{r} 131 \\ 5 \overline{)655} \\ \underline{-5} \\ 15 \\ \underline{-15} \\ 05 \\ \underline{-5} \\ 0 \end{array}$
hundreds	tens	ones																	
•	•••	•																	
•	•••	•																	
•	•••	•																	
•	•••	•																	
<p>b. $726 \div 3$</p> <p>Number Disks</p> <table border="1"> <thead> <tr> <th>hundreds</th> <th>tens</th> <th>ones</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>••</td> <td>••••</td> <td>••</td> </tr> <tr> <td>••</td> <td>••••</td> <td>••</td> </tr> <tr> <td>••</td> <td>••••</td> <td>••</td> </tr> </tbody> </table> <p>2 hundreds 4 tens = 242 2 ones</p>	hundreds	tens	ones				••	••••	••	••	••••	••	••	••••	••	<p>Algorithm</p> $\begin{array}{r} 242 \\ 3 \overline{)726} \\ \underline{-6} \\ 12 \\ \underline{-12} \\ 06 \\ \underline{-6} \\ 0 \end{array}$			
hundreds	tens	ones																	
••	••••	••																	
••	••••	••																	
••	••••	••																	
<p>c. $688 \div 4$</p> <p>Number Disks</p> <table border="1"> <thead> <tr> <th>hundreds</th> <th>tens</th> <th>ones</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>•</td> <td>••••</td> <td>••</td> </tr> <tr> <td>•</td> <td>••••</td> <td>••</td> </tr> <tr> <td>•</td> <td>••••</td> <td>••</td> </tr> <tr> <td>•</td> <td>••••</td> <td>••</td> </tr> </tbody> </table> <p>1 hundred 7 tens = 172 2 ones</p>	hundreds	tens	ones				•	••••	••	•	••••	••	•	••••	••	•	••••	••	<p>Algorithm</p> $\begin{array}{r} 172 \\ 4 \overline{)688} \\ \underline{-4} \\ 28 \\ \underline{-28} \\ 08 \\ \underline{-8} \\ 0 \end{array}$
hundreds	tens	ones																	
•	••••	••																	
•	••••	••																	
•	••••	••																	
•	••••	••																	

