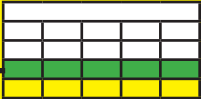

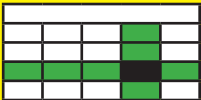

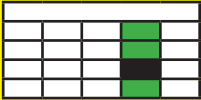
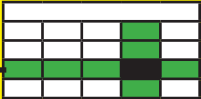


Worksheets A7.a-c—For use with Table 10.3 (Interest paid on a 30-year loan).

(a) Determining Interest Paid	
<b>Inputs Needed: Rate, Time, Principal</b>	
1. Enter <i>Rate</i> (in annual percent):	
2. Enter <i>Time</i> (in years):	
3. Locate row with <i>Rate</i> .	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"><b>Rate</b> —</div>  </div>
4. Locate column with <i>Time</i> .	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"><b>Time</b> —</div>  </div>
5. Enter value from box at the row-column intersection:	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 60px; height: 30px; margin-right: 10px;"></div>  </div>
6. Enter <i>Principal</i> (in dollars):	
7. Divide Box 6 by 10,000.	
8. Multiply Box 5 by Box 7 for the <i>Interest Paid</i> :	

(b) Determining a Rate	
<b>Inputs Needed: Principal, Interest Paid, Time</b>	
1. Enter <i>Principal</i> (in dollars):	
2. Divide Box 1 by 10,000.	
3. Enter <i>Interest Paid</i> (in dollars):	
4. Divide Box 3 by Box 2.	
5. Enter <i>Time</i> :	
6. Locate column with <i>Time</i> .	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"><b>Time</b> —</div>  </div>
7. Find the value in the time column closest to the value in Box 4.	<div style="display: flex; align-items: center;">  </div>
8. Result is the <i>Rate</i> for the corresponding row:	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 60px; height: 30px; margin-right: 10px;"></div> <div style="margin-right: 10px;"><b>Rate</b> —</div>  </div>

For an example see Chapter 10: Example 10.9.

<b>(c) Determining a Time</b>																									
<b>Inputs Needed:</b> <i>Principal, Interest Paid, Rate</i>																									
1. Enter <i>Principal</i> (in dollars):																									
2. Divide Box 1 by 10,000.																									
3. Enter <i>Interest Paid</i> (in dollars):																									
4. Divide Box 3 by Box 2.																									
5. Enter <i>Rate</i> (in annual percent):																									
6. Locate row with the <i>Rate</i> .	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"><b>Rate</b> ———→</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr style="background-color: #90EE90;"><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> </div>																								
7. Find the value in the rate row closest to the value in Box 4.	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr style="background-color: #90EE90;"><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr style="background-color: #90EE90;"><td></td><td></td><td></td><td style="background-color: black;"></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>																								
8. Result is the <i>Time</i> for the corresponding column:	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"><b>Time</b> ———→</div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr style="background-color: #90EE90;"><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr style="background-color: #90EE90;"><td></td><td></td><td></td><td style="background-color: black;"></td><td></td><td></td></tr> <tr style="background-color: #90EE90;"><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> </div>																								