# CONTENTS

## ACKNOWLEDGMENTS

## INTRODUCTION

## INTRODUCTORY DECIMAL LESSONS

| One | Representing Decimals with Base Ten Blocks | 1 |
| Two | Introducing Decimal Notation | 9 |
| Three | Decimal Riddles | 21 |
| Four | Comparing Decimals | 27 |

## EXTENDING DECIMALS

| Five | Decimal Nim | 36 |
| Six | The Lobster Problem | 42 |
| Seven | Constant Calculating | 49 |
| Eight | The Sum and Difference Game | 56 |

## INTRODUCTORY PERCENT LESSONS

| Nine | Introducing Percents | 62 |
| Ten | Percent Designs | 76 |

## CONNECTING FRACTIONS AND DECIMALS

| Eleven | Benchmarks | 83 |
| Twelve | Relating Fractions and Decimals | 94 |
| Thirteen | Introducing Repeating Decimals | 103 |
**LINKING MONEY AND DECIMALS**

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOURTEEN</td>
<td>The Eight-Coin Problem</td>
<td>110</td>
</tr>
<tr>
<td>FIFTEEN</td>
<td>Money Riddles</td>
<td>119</td>
</tr>
<tr>
<td>SIXTEEN</td>
<td>Foreign Exchange and Rounding</td>
<td>128</td>
</tr>
<tr>
<td>SEVENTEEN</td>
<td>Pigs Will Be Pigs</td>
<td>134</td>
</tr>
<tr>
<td>EIGHTEEN</td>
<td>Alexander, Who Used to Be Rich Last Sunday</td>
<td>146</td>
</tr>
<tr>
<td>NINETEEN</td>
<td>$1.00 Word Riddles</td>
<td>152</td>
</tr>
</tbody>
</table>

**ADDITIONAL ACTIVITIES**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broken Calculator</td>
<td>161</td>
</tr>
<tr>
<td>Getting to One</td>
<td>162</td>
</tr>
<tr>
<td>Target Practice</td>
<td>163</td>
</tr>
<tr>
<td>Knockout</td>
<td>164</td>
</tr>
<tr>
<td>From Here to There</td>
<td>165</td>
</tr>
<tr>
<td>Cover Up</td>
<td>166</td>
</tr>
<tr>
<td>Pursuit of Zero</td>
<td>167</td>
</tr>
</tbody>
</table>

**ASSESSMENTS**

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Which Is Larger?</td>
<td>170</td>
</tr>
<tr>
<td>Where Does the Decimal Point Belong?</td>
<td>171</td>
</tr>
<tr>
<td>Closest to 0, .5, or 1?</td>
<td>172</td>
</tr>
<tr>
<td>Putting Decimals in Order</td>
<td>173</td>
</tr>
<tr>
<td>Putting Decimals and Fractions in Order</td>
<td>174</td>
</tr>
<tr>
<td>Which Answer Makes Sense?</td>
<td>175</td>
</tr>
<tr>
<td>Selling Plants</td>
<td>176</td>
</tr>
<tr>
<td>What Do You Know About Decimals?</td>
<td>177</td>
</tr>
<tr>
<td>What Do You Know About Percents?</td>
<td>178</td>
</tr>
</tbody>
</table>

**BLACKLINE MASTERS**

<table>
<thead>
<tr>
<th>Masters</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Place Value Mat</td>
<td>180</td>
</tr>
<tr>
<td>Donna’s Decimals</td>
<td>181</td>
</tr>
<tr>
<td>Decimal Riddles</td>
<td>182</td>
</tr>
<tr>
<td>The Greatest Wins</td>
<td>183</td>
</tr>
<tr>
<td>Decimal Nim</td>
<td>184</td>
</tr>
<tr>
<td>Target</td>
<td>185</td>
</tr>
<tr>
<td>Race to Zero</td>
<td>186</td>
</tr>
<tr>
<td>Target II</td>
<td>187</td>
</tr>
<tr>
<td>Sam and Sally</td>
<td>188</td>
</tr>
<tr>
<td>The Sum and Difference Game</td>
<td>189</td>
</tr>
<tr>
<td>Topic</td>
<td>Page</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Place Value Spinner Directions</td>
<td>190</td>
</tr>
<tr>
<td>10-by-10 Grids</td>
<td>191</td>
</tr>
<tr>
<td>Percent Designs</td>
<td>192</td>
</tr>
<tr>
<td>Percent Grids</td>
<td>193</td>
</tr>
<tr>
<td>T Design</td>
<td>194</td>
</tr>
<tr>
<td>Large 10-by-10 Grid</td>
<td>195</td>
</tr>
<tr>
<td>$1.00 Bills</td>
<td>196</td>
</tr>
<tr>
<td>$5.00 Bills</td>
<td>197</td>
</tr>
<tr>
<td>$10.00 Bills</td>
<td>198</td>
</tr>
<tr>
<td>Money Riddles</td>
<td>199</td>
</tr>
<tr>
<td>More Money Riddles</td>
<td>200</td>
</tr>
<tr>
<td>Enchanted Enchilada Menu</td>
<td>201</td>
</tr>
<tr>
<td>Values of Letters</td>
<td>202</td>
</tr>
<tr>
<td>Cover Up</td>
<td>203</td>
</tr>
<tr>
<td>Pursuit of Zero</td>
<td>204</td>
</tr>
</tbody>
</table>

**INDEX**

205