

Problem String: Ratio Table

Problems	Sample Strategies & Recording														
$4 \times 5 = f$	<table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <th style="padding: 5px;">Students</th> <th style="padding: 5px;">Folders</th> </tr> <tr> <td style="text-align: center; padding: 5px;">4</td> <td style="text-align: center; padding: 5px;">20</td> </tr> </table> </td> <td style="text-align: center; padding: 20px;"> <table border="1" style="border-collapse: collapse;"> <tr> <th style="padding: 5px;">Students</th> <td style="padding: 5px;">4</td> </tr> <tr> <td style="padding: 5px;">Folders</td> <th style="padding: 5px;">20</th> </tr> </table> </td> </tr> </table>	<table border="1" style="border-collapse: collapse;"> <tr> <th style="padding: 5px;">Students</th> <th style="padding: 5px;">Folders</th> </tr> <tr> <td style="text-align: center; padding: 5px;">4</td> <td style="text-align: center; padding: 5px;">20</td> </tr> </table>	Students	Folders	4	20	<table border="1" style="border-collapse: collapse;"> <tr> <th style="padding: 5px;">Students</th> <td style="padding: 5px;">4</td> </tr> <tr> <td style="padding: 5px;">Folders</td> <th style="padding: 5px;">20</th> </tr> </table>	Students	4	Folders	20				
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Students	4	8	16												
Folders	20	40	80												

$$32 \times 5 = f$$

Students	Folders
$\times 2$ 4	20 $\times 2$
$\times 2$ 8	40 $\times 2$
$\times 2$ 16	80 $\times 2$
32	160

	$\times 2$	$\times 2$	$\times 2$	
Students	4	8	16	32
Folders	20	40	80	160
	$\times 2$	$\times 2$	$\times 2$	

$$33 \times 5 = f$$

Students	Folders
$\times 2$ 4	20 $\times 2$
$\times 2$ 8	40 $\times 2$
$\times 2$ 16	80 $\times 2$
$+ 1$ 32	160 $+ 5$
33	165

	$\times 2$	$\times 2$	$\times 2$	$+ 1$	
Students	4	8	16	32	33
Folders	20	40	80	160	165
	$\times 2$	$\times 2$	$\times 2$	$+ 5$	