













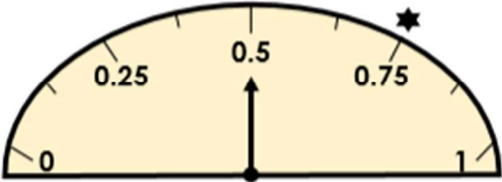

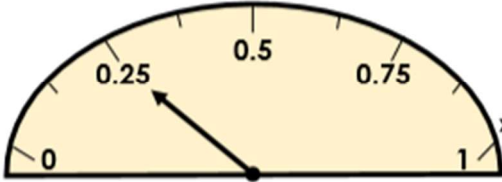


























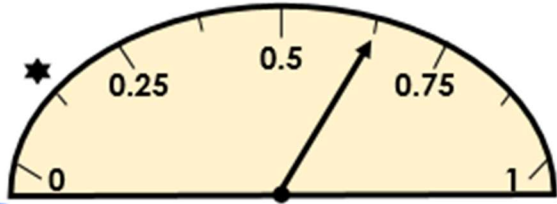

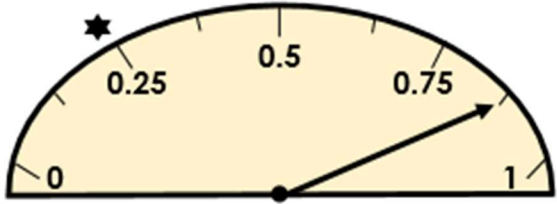











Miss Vivian's group

<p>1a. Use the cubes and tables to calculate:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="background-color: #c8e6c9;">Ones</th> <th style="background-color: #c8e6c9;">Tenths</th> <th style="background-color: #c8e6c9;">Hundredths</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">•</td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> </tr> </tbody> </table> <p>How much is 2 tenths less than this? Now subtract 2 hundredths?</p> <p> VF</p>	Ones	Tenths	Hundredths	•			<p>1b. Use the cubes and tables to calculate:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="background-color: #c8e6c9;">Ones</th> <th style="background-color: #c8e6c9;">Tenths</th> <th style="background-color: #c8e6c9;">Hundredths</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">•</td> <td style="text-align: center;"></td> <td style="text-align: center;"></td> </tr> </tbody> </table> <p>How much is 1 tenth less than this? Now subtract 2 hundredths?</p> <p> VF</p>	Ones	Tenths	Hundredths	•																
Ones	Tenths	Hundredths																									
•																											
Ones	Tenths	Hundredths																									
•																											
<p>2a. What is the difference between the reading on the scale and your target weight marked with ★.</p>  <p> VF</p>	<p>2b. What is the difference between the reading on the scale and your target weight marked with ★.</p>  <p> VF</p>																										
<p>3a. Find the missing number in each bar model.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="background-color: #e0e0e0;">0.12</td> <td style="width: 50px;"></td> </tr> <tr> <td colspan="2" style="background-color: #ffe0b2;">0.68</td> </tr> </table> <table border="1" style="margin-left: auto; margin-right: auto; margin-top: 10px;"> <tr> <td style="width: 50px;"></td> <td style="background-color: #e0e0e0;">0.21</td> <td style="width: 50px;"></td> <td style="background-color: #e0e0e0;">0.02</td> <td style="width: 50px;"></td> </tr> <tr> <td colspan="2" style="background-color: #fff9c4;">0.82</td> <td colspan="3" style="background-color: #bbdefb;">0.66</td> </tr> </table> <p>Now write each as a subtraction.</p> <p> VF</p>	0.12		0.68			0.21		0.02		0.82		0.66			<p>3b. Find the missing number in each bar model.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 50px;"></td> <td style="background-color: #e0e0e0;">0.12</td> </tr> <tr> <td colspan="2" style="background-color: #c8e6c9;">0.86</td> </tr> </table> <table border="1" style="margin-left: auto; margin-right: auto; margin-top: 10px;"> <tr> <td style="width: 50px;"></td> <td style="background-color: #e0e0e0;">0.45</td> <td style="width: 50px;"></td> <td style="background-color: #e0e0e0;">0.26</td> </tr> <tr> <td colspan="2" style="background-color: #ffe0b2;">0.67</td> <td colspan="2" style="background-color: #fff9c4;">0.87</td> </tr> </table> <p>Now write each as a subtraction.</p> <p> VF</p>		0.12	0.86			0.45		0.26	0.67		0.87	
0.12																											
0.68																											
	0.21		0.02																								
0.82		0.66																									
	0.12																										
0.86																											
	0.45		0.26																								
0.67		0.87																									
<p>4a. True or false?</p> <p style="text-align: center;">$0.88 - 0.16 = 0.72$</p> <p> VF</p>	<p>4b. True or false?</p> <p style="text-align: center;">$0.78 - 0.64 = 0.16$</p> <p> VF</p>																										
<p>5a. Calculate the difference using the number line.</p> <p>0.56 0.59</p>  <p> VF</p>	<p>5b. Calculate the following using a number line.</p> <p>0.15 0.48</p>  <p> VF</p>																										

<p>6a. Use the cubes and tables to calculate:</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="background-color: #d9ead3;">Ones</th> <th style="background-color: #d9ead3;">Tenths</th> <th style="background-color: #d9ead3;">Hundredths</th> <th style="background-color: #d9ead3;">Thousandths</th> </tr> </thead> <tbody> <tr> <td></td> <td>●</td> <td></td> <td></td> </tr> </tbody> </table> <p>How much is 3 tenths less than this? Now subtract 4 hundredths? What is another 6 thousandths less?</p> <p> VF</p>	Ones	Tenths	Hundredths	Thousandths		●			<p>6b. Use the cubes and tables to calculate:</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="background-color: #d9ead3;">Ones</th> <th style="background-color: #d9ead3;">Tenths</th> <th style="background-color: #d9ead3;">Hundredths</th> <th style="background-color: #d9ead3;">Thousandths</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>How much is 4 tenths less than this? Now subtract 8 hundredths? What is another 2 thousandths less?</p> <p> VF</p>	Ones	Tenths	Hundredths	Thousandths												
Ones	Tenths	Hundredths	Thousandths																						
	●																								
Ones	Tenths	Hundredths	Thousandths																						
																									
<p>7a. What is the difference between the reading on the scale and your target weight marked with ★.</p>  <p> VF</p>	<p>7b. What is the difference between the reading on the scale and your target weight marked with ★.</p>  <p> VF</p>																								
<p>8a. Find the missing number in each bar model.</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="background-color: #d9ead3;">0.153</td> <td style="background-color: #d9ead3;"></td> </tr> <tr> <td colspan="2" style="background-color: #f4cccc;">0.474</td> </tr> </table> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="background-color: #d9ead3;"></td> <td style="background-color: #d9ead3;">0.349</td> <td style="background-color: #d9ead3;">0.725</td> <td style="background-color: #d9ead3;"></td> </tr> <tr> <td colspan="2" style="background-color: #fff2cc;">0.971</td> <td colspan="2" style="background-color: #cfe2f3;">0.963</td> </tr> </table> <p>Now write each as a subtraction.</p> <p> VF</p>	0.153		0.474			0.349	0.725		0.971		0.963		<p>8b. Find the missing number in each bar model.</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="background-color: #d9ead3;"></td> <td style="background-color: #d9ead3;">0.623</td> </tr> <tr> <td colspan="2" style="background-color: #cfe2f3;">0.839</td> </tr> </table> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="background-color: #d9ead3;"></td> <td style="background-color: #d9ead3;">0.159</td> <td style="background-color: #d9ead3;"></td> <td style="background-color: #d9ead3;">0.46</td> </tr> <tr> <td colspan="2" style="background-color: #fff2cc;">0.764</td> <td colspan="2" style="background-color: #fff2cc;">0.783</td> </tr> </table> <p>Now write each as a subtraction.</p> <p> VF</p>		0.623	0.839			0.159		0.46	0.764		0.783	
0.153																									
0.474																									
	0.349	0.725																							
0.971		0.963																							
	0.623																								
0.839																									
	0.159		0.46																						
0.764		0.783																							
<p>9a. True or false?</p> <p style="text-align: center;">$0.863 - 0.276 = 0.612$</p> <p> VF</p>	<p>9b. True or false?</p> <p style="text-align: center;">$0.175 - 0.089 = 0.091$</p> <p> VF</p>																								
<p>10a. Calculate the difference using the number line.</p> <p>0.532 0.851</p>  <p> VF</p>	<p>10b. Calculate the following using a number line.</p> <p>0.635 0.982</p>  <p> VF</p>																								

11a. Use the cubes and tables to calculate:

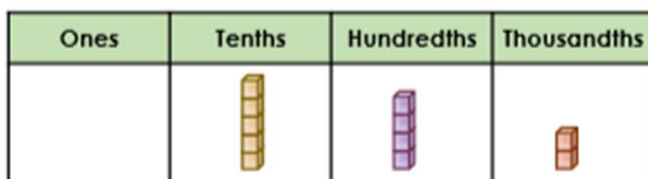


How much is 8 tenths, 5 hundredths and 2 thousandths less than this?



VF

11b. Use the cubes and tables to calculate:

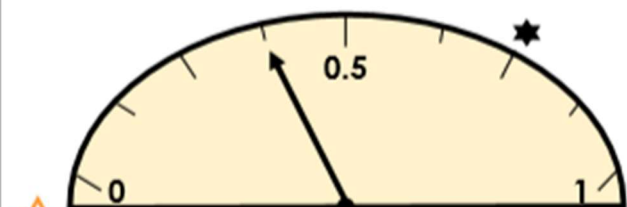


How much is 5 hundredths and 9 thousandths less than this?



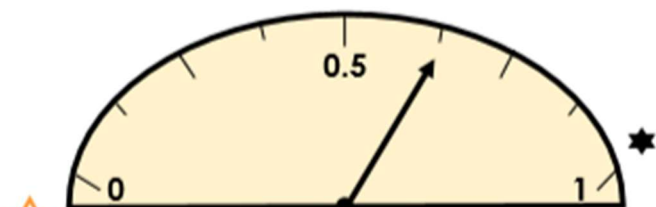
VF

12a. What is the difference between the reading on the scale and your target weight marked with ★. Give your answer in kilograms.



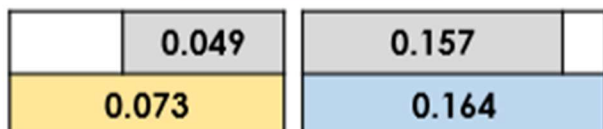
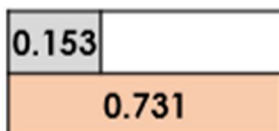
VF

12b. What is the difference between the reading on the scale and your target weight marked with ★. Give your answer in kilograms.



VF

13a. Find the missing number in each bar model.

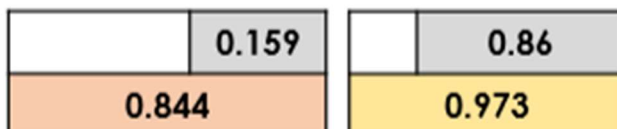
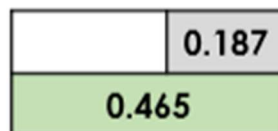


Now write each as a subtraction.



VF

13b. Find the missing number in each bar model.



Now write each as a subtraction.



VF

14a. True or false?

$$0.983 - 0.698 = 0.315$$



VF

14b. True or false?

$$0.769 - 0.08 = 0.761$$



VF

15a. Calculate the difference using the number line.



VF

15b. Calculate the following using a number line.



VF

Answers:

Developing

- 1a. 0.73, 0.53, 0.51
- 2a. 0.25kg
- 3a. 0.56, 0.61, 0.64
- 4a. True.
- 5a. Various representations possible. The difference is 0.03

Expected

- 6a. 0.165, 0.125, 0.119
- 7a. 0.5kg
- 8a. 0.321, 0.622, 0.238
- 9a. False. The difference is 0.587
- 10a. Various representations possible. The difference is 0.319

Greater Depth

- 11a. 0.079
- 12a. 0.375kg
- 13a. 0.578, 0.024, 0.007
- 14a. False. The difference is 0.285
- 15a. 0.342

Developing

- 1b. 0.34, 0.24, 0.22
- 2b. 0.75kg
- 3b. 0.74, 0.22, 0.61
- 4b. False. The difference is 0.14
- 5b. Various representations possible. The difference is 0.33

Expected

- 6b. 0.273, 0.193, 0.191
- 7b. 0.575kg
- 8b. 0.216, 0.605, 0.323
- 9b. True.
- 10b. Various representations possible. The difference is 0.347

Greater Depth

- 11b. 0.483
- 12b. 0.375kg
- 13b. 0.278, 0.685, 0.113
- 14b. False. The difference is 0.689
- 15b. 0.077