

Thursday answers

Question	Answer																																																																																																												
1	<p>a) 5,659</p> <p>b) 5,661</p> <p>c) In part b), 10 ones needed to be exchanged for 1 ten. Part a) was easier because there were no exchanges.</p> <p>d) 10 counters in one column need to be exchanged for 1 counter in the next column to the left.</p>																																																																																																												
2	<p>a) 6,982</p> <p>b) 6,975</p> <p>c) 6,955</p> <p>d) 5,177</p>																																																																																																												
3	<p>a)</p> <table border="1" style="margin-left: 20px;"> <thead> <tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>5</td><td>1</td><td>6</td><td>3</td></tr> <tr><td>+</td><td>2</td><td>4</td><td>5</td><td>1</td></tr> <tr><td colspan="4" style="border-top: 1px solid black;">7</td><td>6</td><td>1</td><td>4</td></tr> <tr><td colspan="4"></td><td>1</td><td></td><td></td></tr> </tbody> </table> <p>b)</p> <table border="1" style="margin-left: 20px;"> <thead> <tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>7</td><td>2</td><td>6</td><td>1</td></tr> <tr><td>+</td><td>1</td><td>0</td><td>2</td><td>9</td></tr> <tr><td colspan="4" style="border-top: 1px solid black;">8</td><td>2</td><td>9</td><td>0</td></tr> <tr><td colspan="4"></td><td>1</td><td></td><td></td></tr> </tbody> </table> <p>c)</p> <table border="1" style="margin-left: 20px;"> <thead> <tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>7</td><td>0</td><td>3</td><td></td></tr> <tr><td>+</td><td>2</td><td>5</td><td>8</td><td>0</td></tr> <tr><td colspan="4" style="border-top: 1px solid black;">3</td><td>2</td><td>8</td><td>3</td></tr> <tr><td colspan="4"></td><td>1</td><td></td><td></td></tr> </tbody> </table> <p>d)</p> <table border="1" style="margin-left: 20px;"> <thead> <tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>3</td><td>5</td><td>0</td><td>8</td></tr> <tr><td>+</td><td>2</td><td>7</td><td>3</td><td>1</td></tr> <tr><td colspan="4" style="border-top: 1px solid black;">6</td><td>2</td><td>3</td><td>9</td></tr> <tr><td colspan="4"></td><td>1</td><td></td><td></td></tr> </tbody> </table>	Th	H	T	O	5	1	6	3	+	2	4	5	1	7				6	1	4					1			Th	H	T	O	7	2	6	1	+	1	0	2	9	8				2	9	0					1			Th	H	T	O	7	0	3		+	2	5	8	0	3				2	8	3					1			Th	H	T	O	3	5	0	8	+	2	7	3	1	6				2	3	9					1		
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4	<p>Alex</p> <p>Rosie has written the total of $3 + 8$ in the tens column, instead of carrying 1 hundred to the hundreds column.</p> <p>Jack has not written down the '1' under the hundreds column.</p> <p>Teddy has not lined the digits up correctly.</p>																																																																																																												
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Friday answers continued

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5	<p>a) 5,725</p> <p>b) No, he has 7,620 points.</p>																																																																																
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Monday Answers -

Question	Answer
1	<p>a)</p> $\begin{array}{r} 2164 \\ + 3213 \\ \hline 5377 \end{array}$ <p>b)</p> $\begin{array}{r} 4275 \\ + 2643 \\ \hline 6918 \\ \hline 1 \end{array}$
2	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> $\begin{array}{r} 7435 \\ + 2456 \\ \hline 9891 \\ \hline 1 \end{array}$ </div> <div style="text-align: center;"> $\begin{array}{r} 7435 \\ + 2466 \\ \hline 9901 \\ \hline 11 \end{array}$ </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> $\begin{array}{r} 7435 \\ + 2566 \\ \hline 10001 \\ \hline 11 \end{array}$ </div> <div style="text-align: center;"> $\begin{array}{r} 7435 \\ + 3566 \\ \hline 11001 \\ \hline 111 \end{array}$ </div> </div> <p>Each addition involves at least one exchange. The last digit stays the same. The number of exchanges is different.</p>
3	<p>a) 37,568 b) 37,573 c) 38,091 d) 12,245</p>
4	<p>a)</p> $\begin{array}{r} \pounds 36000 \\ + \pounds 19420 \\ \hline \pounds 55420 \\ \hline 1 \end{array}$ <p>b)</p> $\begin{array}{r} 40720 \text{ g} \\ + 6872 \text{ g} \\ \hline 47592 \text{ g} \\ \hline 1 \end{array}$ <p>c)</p> $\begin{array}{r} 843 \text{ cm} \\ + 15611 \text{ cm} \\ \hline 16454 \text{ cm} \\ \hline 1 \end{array}$ <p>d)</p> $\begin{array}{r} \pounds 17320 \\ + \pounds 6009 \\ \pounds 34871 \\ \hline \pounds 58200 \\ \hline 1111 \end{array}$
5	match 3

Question	Answer
6	<p>a)</p> $\begin{array}{r} 64112 \\ + 25814 \\ \hline 89926 \end{array}$ <p>b)</p> $\begin{array}{r} 64092 \\ + 25834 \\ \hline 89926 \end{array}$
7	<p>a) 265 b) 8,974 c) 9,128</p>
8	Dexter has not added the 1 digit that has been exchanged from the previous column. Eva has not lined up the digits correctly.

Tuesday Answers

1	<p>b) 2,219</p> <p>c) Part a) was easier because we do not need to do an exchange.</p> <p>d) We need to do an exchange.</p>																																																								
2	<p>1 ten can be exchanged for 10 ones.</p> <p>1 hundred can be exchanged for 10 tens.</p> <p>1 thousand can be exchanged for 10 hundreds.</p>																																																								
3	<p>a)</p> <table border="1" data-bbox="327 481 497 622"> <thead> <tr><th></th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td></td><td>3</td><td>1</td><td>¹7</td></tr> <tr><td>-</td><td>1</td><td>1</td><td>9</td></tr> <tr><td></td><td>2</td><td>0</td><td>8</td></tr> </tbody> </table> <p>b)</p> <table border="1" data-bbox="327 629 523 770"> <thead> <tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>7</td><td>6</td><td>9</td><td>¹3</td></tr> <tr><td>-</td><td>1</td><td>3</td><td>4</td></tr> <tr><td></td><td>7</td><td>5</td><td>3</td></tr> <tr><td></td><td></td><td>9</td><td></td></tr> </tbody> </table> <p>c)</p> <table border="1" data-bbox="327 777 523 918"> <thead> <tr><th>Th</th><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>9</td><td>8</td><td>4</td><td>¹5</td></tr> <tr><td>-</td><td>6</td><td>2</td><td>1</td></tr> <tr><td></td><td>3</td><td>6</td><td>2</td></tr> <tr><td></td><td></td><td>9</td><td></td></tr> </tbody> </table>		H	T	O		3	1	¹ 7	-	1	1	9		2	0	8	Th	H	T	O	7	6	9	¹ 3	-	1	3	4		7	5	3			9		Th	H	T	O	9	8	4	¹ 5	-	6	2	1		3	6	2			9	
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6	No. She has found the difference between the numbers in each column rather than making an exchange.																																																												
7	£6,375																																																												
8	9,713																																																												

Wednesday Answers


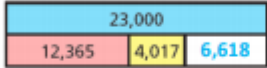
Question	Answer																																																																
1	a) 1,694 b) 1 hundred was exchanged for 10 tens, and one of the tens was then exchanged for 10 ones. c) 1,682 d) 802 e) $1,702 - 28 = 1,674$ $1,702 - 928 = 774$																																																																
2	a) 210 b) 209 c) 199 All the numbers are subtracted from 564. In part a) no exchanges were made. In part b) one exchange was made. In part c) two exchanges were made.																																																																
3	a) 3,399 b) 3,400 c) 3,401 2,036 is subtracted from all the numbers. In part a) 2 exchanges were made. In parts b) and c) no exchanges were made.																																																																
4	a) <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td>1 3</td> <td>2 5</td> <td></td> <td></td> </tr> <tr> <td>- 2</td> <td>4</td> <td>0</td> <td>6</td> </tr> <tr> <td>4</td> <td>9</td> <td>1</td> <td>9</td> </tr> </tbody> </table> b) <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td>4 5</td> <td>2 3</td> <td>1 4</td> <td></td> </tr> <tr> <td>- 2</td> <td>7</td> <td>4</td> <td>5</td> </tr> <tr> <td>2</td> <td>8</td> <td>8</td> <td>9</td> </tr> </tbody> </table> c) <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td>6 7</td> <td>0 2</td> <td></td> <td></td> </tr> <tr> <td>- 3</td> <td>9</td> <td>8</td> <td></td> </tr> <tr> <td>6</td> <td>7</td> <td>0</td> <td>4</td> </tr> </tbody> </table> d) <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td>4 5</td> <td>1 0</td> <td>0 0</td> <td></td> </tr> <tr> <td>- 1</td> <td>7</td> <td>3</td> <td>3</td> </tr> <tr> <td>3</td> <td>2</td> <td>6</td> <td>7</td> </tr> </tbody> </table>	Th	H	T	O	1 3	2 5			- 2	4	0	6	4	9	1	9	Th	H	T	O	4 5	2 3	1 4		- 2	7	4	5	2	8	8	9	Th	H	T	O	6 7	0 2			- 3	9	8		6	7	0	4	Th	H	T	O	4 5	1 0	0 0		- 1	7	3	3	3	2	6	7
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7	<p>multiple possible answers, e.g:</p> <p>a) 2,353 - 1,064</p> <p>b) 7,640 - 2,351</p> <p>c) 7,420 - 6,531</p>																																								

Thursday Answers

Question	Answer
1	<p>a)</p> $\begin{array}{r} 7315 \\ - 2104 \\ \hline 5211 \end{array}$ <p>b)</p> $\begin{array}{r} 7215 \\ - 3241 \\ \hline 4074 \end{array}$ <p>c)</p> $\begin{array}{r} 7215 \\ - 5420 \\ \hline 1895 \end{array}$
2	<p>a)</p> $\begin{array}{r} 8434 \\ - 2104 \\ \hline 6330 \end{array}$ <p>b)</p> $\begin{array}{r} \text{£ } 88200 \\ - \text{£ } 6100 \\ \hline \text{£ } 82100 \end{array}$ <p>c)</p> $\begin{array}{r} 682 \\ - 19024 \\ \hline 27808 \end{array}$ <p>d)</p> $\begin{array}{r} 3210 \\ - 679 \\ \hline 33841 \end{array}$
3	£19,058
4	624 miles

Thursday Answers

Question	Answer
5	<p>a)</p>  <p>b)</p> 
6	<p>Rosie has written the numbers the wrong way round and then found the difference between the digits in each column. Whitney has found the difference between the digits in each column, instead of taking the second digit from the first digit, exchanging where necessary.</p>
7	<p>a) 9 b) 3,273 c) 5,925</p> <p>Work out $15,923 - 10,000$ and add 2 Work out $15,925 - 10,000$ Count up from 9,998 to 15,923</p>
8	<p>a) 19,415 b) 75,305</p>
9	<p>multiple possible answers, e.g: 5,189 and 8,159 5,198 and 8,195 8,159 and 9,518 8,591 and 9,815</p>

Friday Answers

Question	Answer																														
1	<p>2,937 rounded to the nearest 1,000 is 3,000 1,870 rounded to the nearest 1,000 is 2,000 Rosie's estimate for the answer is $3,000 + 2,000 = 5,000$</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>2</td><td>9</td><td>3</td><td>7</td><td></td></tr> <tr><td>+</td><td>1</td><td>8</td><td>7</td><td>0</td><td></td></tr> <tr><td></td><td>4</td><td>8</td><td>0</td><td>7</td><td></td></tr> <tr><td></td><td></td><td>↓</td><td>↓</td><td></td><td></td></tr> </table> <p>The actual answer is 4,807</p>								2	9	3	7		+	1	8	7	0			4	8	0	7				↓	↓		
	2	9	3	7																											
+	1	8	7	0																											
	4	8	0	7																											
		↓	↓																												
2	<p>a) $10,000 + 30,000 = 40,000$ b) $50,000 - 10,000 = 40,000$</p>																														
3	<p>$7,000 + 1,000 = 8,000$ This is much smaller than Annie's answer.</p>																														
4	<p>a) 10,851 km $4,000 + 7,000 = 11,000$ b) 10,491 $1,000 + 10,000 = 11,000$ c) 70,666 $80,000 - 10,000 = 70,000$ d) £9,811 $12,000 + 4,000 - 6,000 = 10,000$</p>																														
5	Town A has the greatest population.																														
6	<p>a) Yes, because 1 has been added to each number so the difference is the same. b) Yes, because 17,550 is on both sides and $10,570 > 9,985$ c) Yes, because on both sides the first and third numbers are the same and one is subtracted from the other, and the second number is the same on both sides.</p>																														
7	$17,000 - 8,000 = 9,000$, which is much less than Mo's answer.																														
8	<p>Both estimates are correct, but they have rounded to different numbers. Dexter has rounded to the nearest 1,000 and Whitney has rounded to the nearest 100. 6,684 Whitney Rounding to the nearest 1,000 gives an easier calculation for the estimate, but rounding to the nearest 100 gives a more accurate estimate.</p>																														