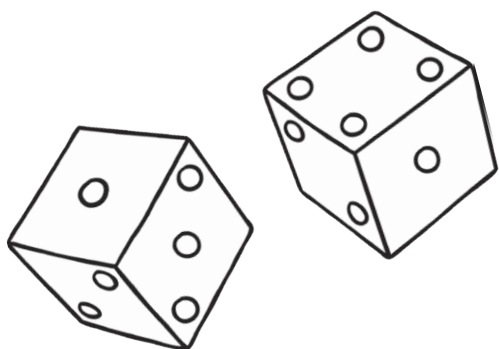
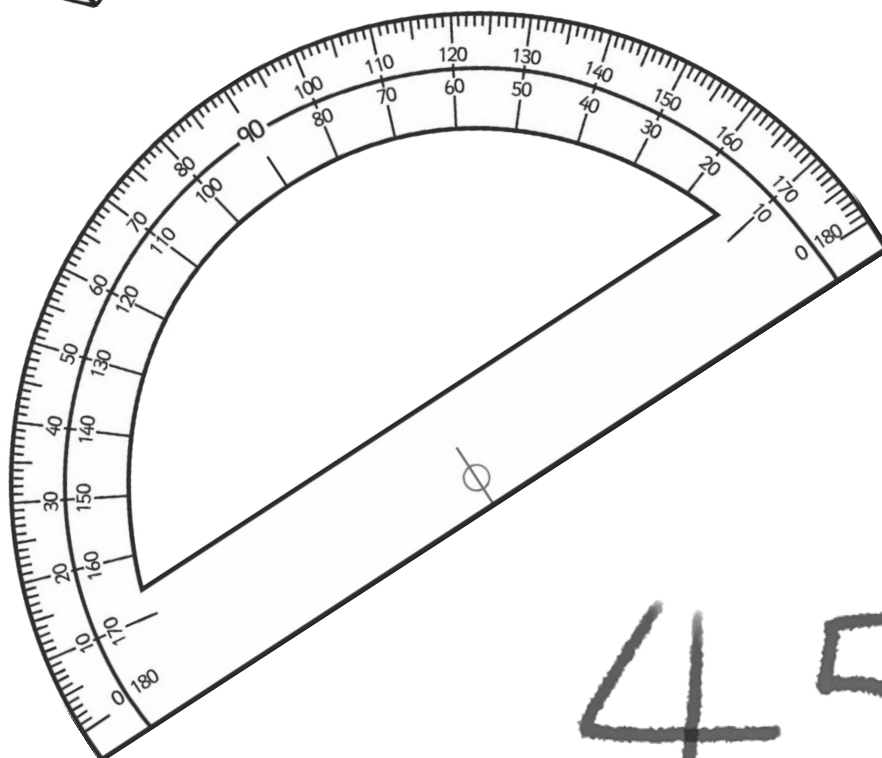


# Year 5 Maths Number and Place Value Workbook Answers



123



45

# Home Learning Year 5 Maths Workbook Pack Answers

Year 5 Programme of Study - Number and Place Value

Statutory Requirements	Worksheet	Page Number	Notes
Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit.	<ul style="list-style-type: none"> <li>• Number Partitioning Worksheet</li> <li>• Ordering Numbers Worksheet</li> <li>• Writing Numbers in words</li> </ul>	<p>3</p> <p>4 - 6</p> <p>7 - 9</p>	
Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.	<ul style="list-style-type: none"> <li>• Counting in Multiples of 10 from any number</li> <li>• Counting forwards or backwards in Powers of Ten</li> <li>• Counting Back in Powers of Ten Worksheets</li> </ul>	<p>10</p> <p>11</p> <p>12 - 14</p>	
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0.	<ul style="list-style-type: none"> <li>• Counting Forwards and Backwards with Positive and Negative Whole Numbers</li> </ul>	15 - 16	
Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.	<ul style="list-style-type: none"> <li>• Match the thousand to the number rounding worksheet</li> <li>• Rounding 10 000's worksheet</li> <li>• Rounding 100 000's worksheet</li> </ul>	<p>17</p> <p>18 - 19</p> <p>20 - 21</p>	

# Home Learning Year 5 Maths Workbook Pack Answers

Year 5 Programme of Study - Number and Place Value

Statutory Requirements	Worksheet	Page Number	Notes
Solve number problems and practical problems that involve all of the above.	• Counting Forwards and Backwards in Powers of 10	22	
	• Word Problems Worksheet	23	
	• Word Problems involving Negative Numbers	24 - 25	
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	• Roman Numerals Worksheet	26	
	• Roman Numerals - Recognising Years	27 - 28	

# Number Partitioning Answers

1. 

1	5	6	8	9	2
---	---	---	---	---	---

 = 

100 000	+	50 000	+	6 000	+	800	+	90	+	2
---------	---	--------	---	-------	---	-----	---	----	---	---

2. 

8	2	7	0	4	5
---	---	---	---	---	---

 = 

800 000	+	20 000	+	7 000	+	40	+	5
---------	---	--------	---	-------	---	----	---	---

3. 

2	6	4	7	8	3
---	---	---	---	---	---

 = 

200 000	+	60 000	+	4 000	+	700	+	80	+	3
---------	---	--------	---	-------	---	-----	---	----	---	---

4. 

4	0	3	6	2	3
---	---	---	---	---	---

 = 

400 000	+	3 000	+	600	+	20	+	3
---------	---	-------	---	-----	---	----	---	---

5. 

500 000	+	60 000	+	3000	+	600	+	10	=	5	6	3	6	1	0
---------	---	--------	---	------	---	-----	---	----	---	---	---	---	---	---	---

6. 

400 000	+	70 000	+	3000	+	400	+	80	+	4	=	4	7	3	4	8	4
---------	---	--------	---	------	---	-----	---	----	---	---	---	---	---	---	---	---	---

7. 

800 000	+	6000	+	300	+	20	+	8	=	8	0	6	3	2	8
---------	---	------	---	-----	---	----	---	---	---	---	---	---	---	---	---

8. 

100 000	+	10 000	+	1000	+	400	+	90	+	7	=	1	1	1	4	9	7
---------	---	--------	---	------	---	-----	---	----	---	---	---	---	---	---	---	---	---

9. 

7	2	8	4	2	9
---	---	---	---	---	---

 = 

700 000	+	20 000	+	8000	+	400	+	20	+	9
---------	---	--------	---	------	---	-----	---	----	---	---

# Ordering Numbers to 10 000 Answers

Fill in the spaces below with the numbers in order from smallest to largest.

2212

2012

1201

1022

2120



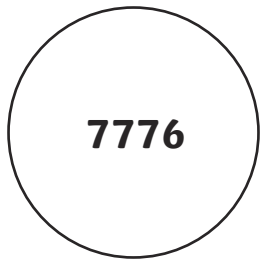
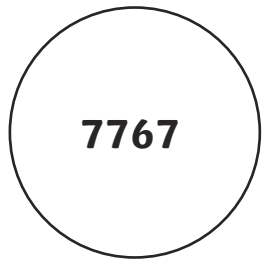
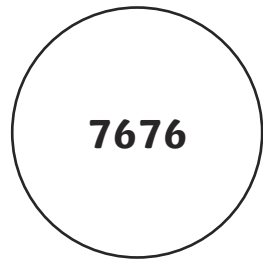
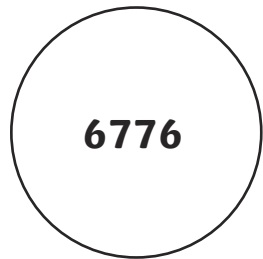
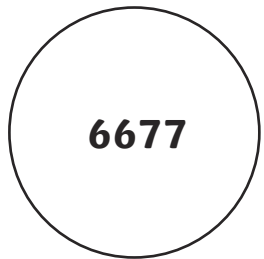
7676

6776

6677

7767

7776



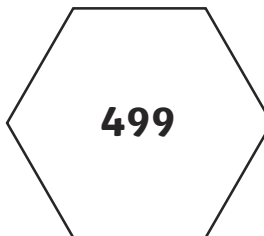
4849

4948

4489

4994

449



1161

6161

1616

6611

6616



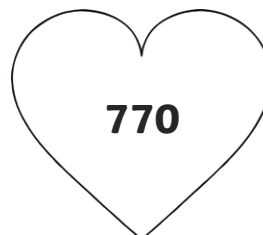
7220

2770

770

720

2707



# Ordering Numbers to 100 000 Answers

Fill in the spaces below with the numbers in order from smallest to largest.

35 435

34 534

35 533

34 453

34 543



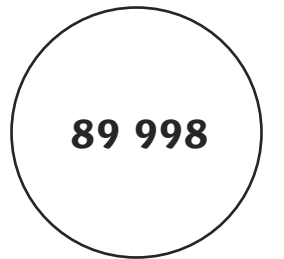
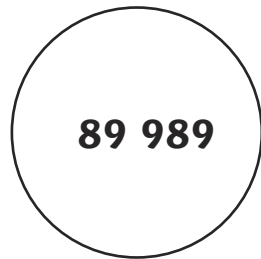
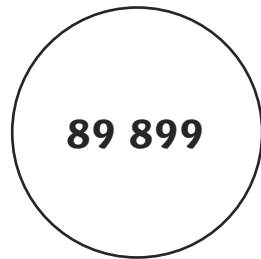
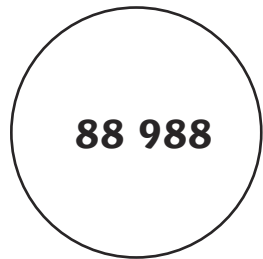
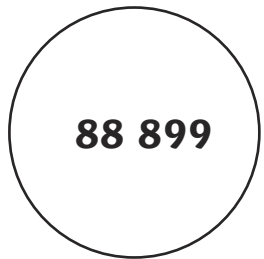
89 998

89 989

88 988

88 899

89 899



17 717

7771

7177

77 717

71 717



25 645

26 255

25 562

24 654

25 622



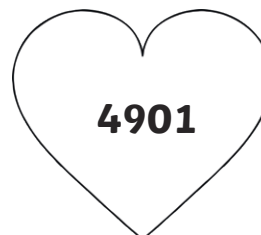
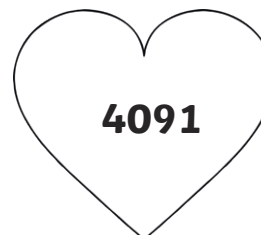
4091

491

4901

914

9410



# Ordering Numbers to 1 000 000 Answers

Fill in the spaces below with the numbers in order from smallest to largest.

245 452

254 245

45 254

452 524

54 542



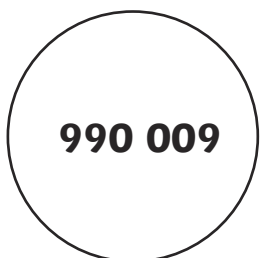
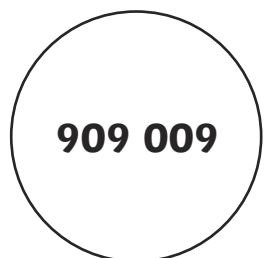
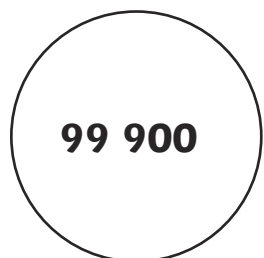
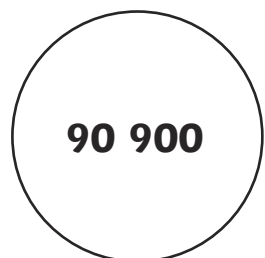
90 900

909 009

999 909

990 009

99 900



368 863

683 836

683 863

836 368

386 386



725 500

527 700

77 500

55 200

725 700



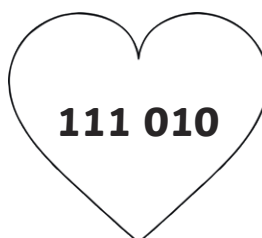
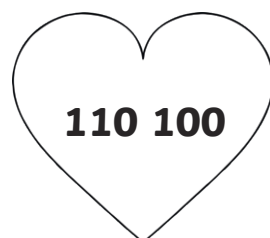
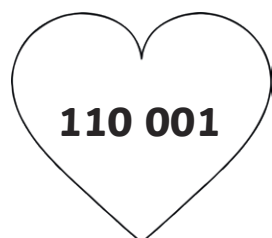
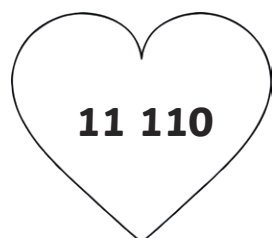
110 001

111 010

11 110

111 101

110 100



# Writing Numbers to 1 000 000 in Words Answers



Write the following words in numbers:

23 443	Twenty-three thousand, four hundred and forty-three
51 623	<b>Fifty-one thousand, six hundred and twenty-three</b>
78 785	<b>Seventy-eight thousand, seven hundred and eighty-five</b>
33 091	<b>Thirty-three thousand and ninety-one</b>
60 696	<b>Sixty thousand, six hundred and ninety-six</b>
402 341	<b>Four hundred and two thousand, three hundred and forty-one</b>
589 130	<b>Five hundred and eighty-nine thousand, one hundred and thirty</b>
645 099	<b>Six hundred and forty-five thousand and ninety-nine</b>
840 781	<b>Eight hundred and forty thousand, seven hundred and eighty-one</b>
709 118	<b>Seven hundred and nine thousand, one hundred and eighteen</b>
112 098	<b>One hundred and twelve thousand and ninety-eight</b>
245 590	<b>Two hundred and forty-five thousand, five hundred and ninety</b>
390 519	<b>Three hundred and ninety thousand, five hundred and nineteen</b>
101 010	<b>One hundred and one thousand and ten</b>



# Writing Numbers to 1 000 000 in Numbers Answers



Write the following words in numbers:

Two hundred and forty-five thousand, eight hundred and forty-six	<b>245 846</b>
Six hundred thousand, seven hundred and thirty-two	<b>600 732</b>
Nine hundred and thirteen thousand, five hundred and forty-one	<b>913 541</b>
Seven hundred and fifteen thousand, two hundred and twenty-eight	<b>715 228</b>
Four hundred and six thousand, seven hundred and ninety-four	<b>406 794</b>
Nine hundred and thirty-six thousand, two hundred and fifty-five	<b>936 255</b>
One hundred and seventeen thousand and four	<b>117 004</b>
Five hundred and thirty-five thousand, seven hundred and six	<b>535 706</b>
Two hundred thousand and twenty-two	<b>200 022</b>
Four hundred and eighty-eight thousand and sixty	<b>488 060</b>
Eight hundred and forty-eight thousand, nine hundred and three	<b>848 903</b>
Nine hundred and ninety-one thousand, one hundred and nineteen	<b>991 119</b>
One hundred and ninety-nine thousand, nine hundred and nineteen	<b>199 919</b>
Five hundred and fifteen thousand, one hundred and fifty-one	<b>515 151</b>

# Writing Numbers to 1 000 000 in Words and Numbers Answers



Write the following words in words and in numbers:

<b>Fifty-six thousand, six hundred and one</b>	<b>56 601</b>
<b>Ninety thousand, four hundred and fifty-two</b>	<b>90 452</b>
Two hundred and fourteen thousand, three hundred and twelve	<b>214 312</b>
Six hundred and fourteen thousand and fifty-nine	<b>614 059</b>
<b>Three hundred and forty-five thousand, three hundred and twenty-seven</b>	<b>345 327</b>
Four hundred thousand, two hundred and twelve	<b>400 212</b>
Eight hundred and eight thousand, eight hundred and eight	<b>808 808</b>
<b>Eight hundred and eighty thousand, eight hundred and eighty</b>	<b>880 880</b>
<b>Six hundred and sixty-six thousand</b>	<b>666 000</b>
Six hundred and sixteen thousand, one hundred and sixty-one	<b>616 161</b>
<b>Seven hundred and ninety-seven thousand, seven hundred and seventy-nine</b>	<b>797 779</b>
Three hundred and thirty-seven thousand and thirty-seven	<b>337 037</b>
<b>Three hundred and forty thousand, eight hundred and nineteen</b>	<b>340 819</b>
Seven hundred and seventeen thousand, one hundred and seventy	<b>717 170</b>

# Counting in Multiples of 10 Answers

Work out the correct numbers and then find the number trail in the grid below by counting backwards in 30s from the start each time.

535 787 + 10	<b>535 797</b>	+10	<b>535 807</b>	+10	<b>535 817</b>	+10	<b>535 827</b>	+10	<b>535 837</b>
879 213 + 20	<b>879 233</b>	+20	<b>879 253</b>	+20	<b>879 273</b>	+20	<b>879 293</b>	+20	<b>879 313</b>
756 128 + 50	<b>756 178</b>	+50	<b>756 228</b>	+50	<b>756 278</b>	+50	<b>756 328</b>	+50	<b>756 378</b>
919 399 + 60	<b>919 459</b>	+60	<b>919 519</b>	+60	<b>919 579</b>	+60	<b>919 639</b>	+60	<b>919 699</b>
754 321 - 10	<b>754 311</b>	-10	<b>754 301</b>	-10	<b>754 291</b>	-10	<b>754 281</b>	-10	<b>754 271</b>
134 094 - 70	<b>134 024</b>	-70	<b>133 954</b>	-70	<b>133 884</b>	-70	<b>133 814</b>	-70	<b>133 744</b>

<b>START</b> <b>394 432</b>	<b>394 492</b>	394 585	394 705	394 505	394 805	394 905
394 118	<b>394 402</b>	<b>394 372</b>	394 625	394 957	394 891	394 635
394 292	<b>394 312</b>	<b>394 342</b>	394 302	394 645	394 665	394 232
394 888	<b>394 282</b>	394 485	394 499	394 680	394 685	394 605
394 578	<b>394 252</b>	<b>394 222</b>	<b>394 192</b>	<b>394 102</b>	<b>394 072</b>	<b>394 042</b>
393 565	393 798	393 411	<b>393 162</b>	<b>393 132</b>	393 082	<b>394 012</b>
393 565	393 166	393 374	393 641	393 445	393 052	<b>FINISH</b> <b>393 982</b>

# Counting on and Back in Powers of 10 Answers

Complete these sequences by counting on or back in powers of 10.

1	546	556	<b>566</b>	<b>576</b>	<b>586</b>
2	478	<b>578</b>	678	<b>778</b>	<b>878</b>
3	4503	<b>4603</b>	<b>4703</b>	4803	<b>4903</b>
4	<b>77</b>	67	<b>57</b>	<b>47</b>	37
5	4904	<b>5004</b>	<b>5104</b>	5204	<b>5304</b>
6	7834	<b>6834</b>	5834	<b>4834</b>	<b>3834</b>
7	12 034	<b>11 034</b>	<b>10 034</b>	<b>9034</b>	8034
8	23 894	33 894	<b>43 894</b>	<b>53 894</b>	<b>63 894</b>
9	<b>65 903</b>	55 903	<b>45 903</b>	35 903	<b>25 903</b>
10	190 780	<b>290 780</b>	390 780	<b>490 780</b>	<b>590 780</b>
11	345 000	<b>335 000</b>	<b>325 000</b>	315 000	<b>305 000</b>
12	786 457	886 457	<b>986 475</b>	<b>1 086 475</b>	<b>1 186 475</b>
13	<b>412 903</b>	<b>312 903</b>	212 903	112 903	<b>12 903</b>
14	1 347 500	<b>1 347 600</b>	<b>1 347 700</b>	<b>1 347 800</b>	1 347 900
15	23 678 340	24 678 340	<b>25 678 340</b>	<b>26 678 340</b>	<b>27 678 340</b>
16	83 900 000	<b>82 900 000</b>	<b>81 900 000</b>	80 900 000	<b>79 900 000</b>
17	<b>490 000 000</b>	<b>500 000 000</b>	510 000 000	520 000 000	<b>530 000 000</b>

# Counting Back in Powers of 10 Answers

Count back from the given numbers in 10s (some answers are given)

1. 85    75    **65**    **55**    **45**

2. 137    **127**    117    **107**    **97**

3. 652    **642**    **632**    622    **612**

4. 901    **891**    **881**    **871**    861

5. 3087    **3077**    **3067**    **3057**    **3047**

6. 66 815    **66 805**       **66 795**    **66 785**    **66 775**

Spot the error in this sequence:

98 621    98 611    98 601    98 691    98 581

98 621    98 611    98 601    98 **5**91    98 581

Count back from the given numbers in 100s (some answers are given)

1. 431    **331**    231    **131**    **31**

2. 900    **800**    **700**    600    **500**

3. 3312    3212    **3112**    **3012**    **2912**

4. 9028    **8928**    **8828**    **8728**    8628

5. 37 920    **37 820**    **37 720**    **37 620**    **37 520**

6. 209 372    **209 272**    **209 172**    **209 072**    **208 972**

Spot the error in this sequence:

191 902    191 802    190 802    189 802    188 802

**192** 902    191 802    190 802    189 802    188 802

# Counting Back in Powers of 10 (2)

## Answers

Count back from the given numbers in 1000s (some answers are given)

- 4523      **3523**      **2523**      **1523**      523
- 9000      **8000**      **7000**      6000      **5000**
- 13 450      12 450      **11 450**      **10 450**      **9 450**
- 102 342      **101 342**      100 342      **99 342**      **98 342**
- 398 700      **397 700**      **396 700**      **395 700**      **394 700**
- 1 341 299      **1 340 299**      **1 339 299**      **1 338 299**      **1 337 299**

Spot the error in this sequence:

199 636	299 636	300 636	301 636	302 636
<b>298</b> 636	299 636	300 636	301 636	302 636

Count back from the given numbers in 10 000s (some answers are given)

- 43 920      33 920      **23 920**      **13 920**      **3 920**
- 71 302      **61 302**      **51 302**      41 302      **31 302**
- 90 000      **80 000**      **70 000**      **60 000**      50 000
- 275 400      **265 400**      255 400      **245 400**      **234 400**
- 733 450      **723 450**      **713 450**      **703 450**      **693 450**
- 2 620 645      **2 610 645**      **2 600 645**      **2 590 645**      **2 580 645**

Spot the error in this sequence:

3 610 000	3 510 000	3 500 000	3 310 000	3 210 000
3 610 000	3 510 000	3 <b>410</b> 000	3 310 000	3 210 000

# Counting Back in Powers of 10 (3)

## Answers

Count back from the given numbers in 100 000s (some answers are given)

- |               |                   |                   |                   |                   |
|---------------|-------------------|-------------------|-------------------|-------------------|
| 1. 690 382    | <b>590 382</b>    | 490 382           | <b>390 382</b>    | <b>290 382</b>    |
| 2. 968 900    | <b>868 900</b>    | <b>768 900</b>    | <b>668 900</b>    | 568 900           |
| 3. 1 220 765  | 1 120 765         | <b>1 020 765</b>  | <b>920 765</b>    | <b>820 765</b>    |
| 4. 2 400 000  | <b>2 300 000</b>  | <b>2 200 000</b>  | 2 100 000         | <b>2 000 000</b>  |
| 5. 6 256 923  | <b>6 156 923</b>  | <b>6 056 923</b>  | <b>5 956 923</b>  | <b>5 856 923</b>  |
| 6. 14 170 000 | <b>14 070 000</b> | <b>13 970 000</b> | <b>13 870 000</b> | <b>13 770 000</b> |

Spot the error in this sequence:

52 900 000	51 900 000	51 800 000	49 900 000	48 900 000
52 900 000	51 900 000	<b>50 800 000</b>	49 900 000	48 900 000

Count back from the given numbers in 1 000 000s (some answers are given)

- |                |                    |                    |                    |                    |
|----------------|--------------------|--------------------|--------------------|--------------------|
| 1. 4 800 000   | <b>3 800 000</b>   | <b>2 800 000</b>   | 1 800 000          | <b>800 000</b>     |
| 2. 7 034 200   | <b>6 034 200</b>   | 5 034 200          | <b>4 034 200</b>   | <b>3 034 200</b>   |
| 3. 12 945 929  | 11 945 929         | <b>10 945 929</b>  | <b>9 945 929</b>   | <b>8 945 929</b>   |
| 4. 37 803 549  | <b>36 803 549</b>  | <b>35 803 549</b>  | <b>34 803 549</b>  | 33 803 549         |
| 5. 62 900 310  | <b>61 900 310</b>  | <b>60 900 310</b>  | <b>59 900 310</b>  | <b>58 900 310</b>  |
| 6. 231 500 000 | <b>230 500 000</b> | <b>229 500 000</b> | <b>228 500 000</b> | <b>227 500 000</b> |

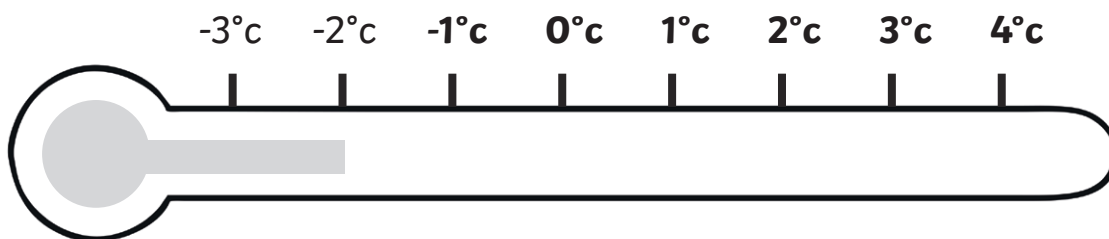
Spot the error in this sequence:

778 100 000	777 100 000	776 100 000	776 900 000	774 100 000
778 100 000	777 100 000	776 100 000	<b>775 100 000</b>	774 100 000

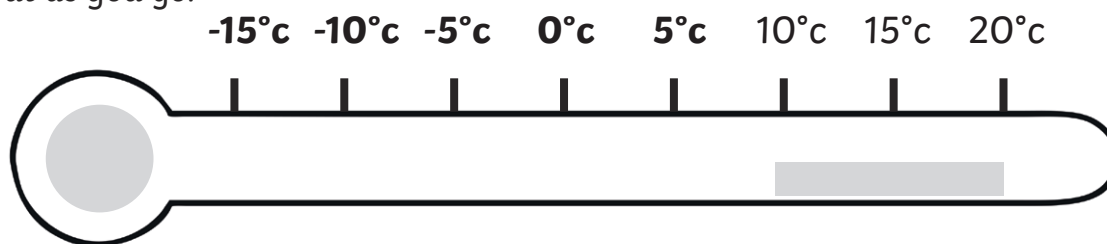
# Counting Forwards and Backwards with Positive and Negative Whole Numbers Answers

I can count forwards and backwards with positive and negative whole numbers.

1. Continue this sequence. Colour in the thermometer to match your sequence.



2. Shade the thermometer lightly up to 20°C. Count backwards to continue this sequence and rub out as you go.



3. Look at the ice lolly on the stick. Count forwards to complete the sequence. As you count forwards draw the ice lolly as it continues to melt in the rising temperature. You should have nothing remaining in the last picture.

-7°C	-4°C	-1°C	2°C	5°C	8°C	11°C	14°C	17°C	20°C

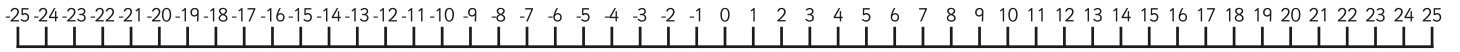
4. Continue this sequence backwards. As the temperature drops with each step, draw an extra item of clothing on the person.

-20°C   -13°C   -7°C   -1°C   5°C   11°C   17°C   23°C





5. Figure out the step in each sequence then use the number line below to help you count forwards and backwards to complete them.



A. -7 -5 -3 -1 1 3 5 7

B. -17°C -12°C -7°C -2°C 3°C 8°C 13°C 18°C

C. -16 -11 -6 -1 4 9 14 19

D. -31 -23 -15 -7 1 9 17 25

E. -£18 -£14 -£10 -£6 -£2 2 6 10

F. -11.5°C -7°C -2.5°C 2°C 6.5°C 11°C 15.5°C 20°C

6. Look at the temperatures for these cities.  
Write the name of the warmest place in the box.



A.	New York	Moscow	Warmest
	-3°C	-1°C	<b>Moscow</b>

B.	Reykjavik	London	Warmest
	-10°C	-3°C	<b>London</b>

C.	Stockholm	Edinburgh	Warmest
	-4°C	-1°C	<b>Edinburgh</b>

D.	Minsk	St. Petersburg	Warmest
	-15°C	-17°C	<b>Minsk</b>

# The Nearest 1000 Answers

Match the number, how the number is rounded, and the number to which it is rounded.  
One has been done for you:

13 790		Nearest 100 000	30 000
29 078		Nearest 100 000	800 000
34 972		Nearest 1000	29 000
145 000		Nearest 10 000	978 000
563 359		Nearest 10 000	600 000
607 450		Nearest 10 000	10 000
784 902		Nearest 1000	150 000
978 236		Nearest 10 000	610 000

## Challenge

Pupil's responses will vary.

# The Nearest 10 000 Answers

Write the ten thousands either side of the given number and mark it approximately on the number line. Then circle the 10 000 to which the given number is closer. (Remember 5 (5000) goes up).

a. 43 930



b. 67 509



c. 30 591



d. 45 662



e. 89 014



f. 12 300



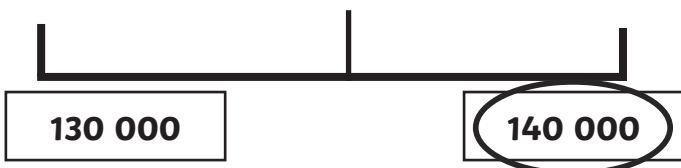
g. 24 677



h. 476 545



i. 135 314



j. 270 013



k. 349 718



l. 455 450



# The Nearest 10 000 (2) Answers

Round the following numbers to the nearest 10 000.

16 023 → <b>20 000</b>	120 532 → <b>120 000</b>	195 870 → <b>200 000</b>
27 467 → <b>30 000</b>	244 665 → <b>240 000</b>	200 287 → <b>200 000</b>
49 501 → <b>50 000</b>	315 500 → <b>320 000</b>	375 828 → <b>380 000</b>
62 090 → <b>60 000</b>	455 838 → <b>460 000</b>	199 777 → <b>200 000</b>
76 327 → <b>80 000</b>	626 112 → <b>630 000</b>	471 727 → <b>470 000</b>
92 105 → <b>90 000</b>	731 008 → <b>730 000</b>	999 300 → <b>1 000 000</b>

Round the following populations to the nearest 10 000.

Places	Population	To the nearest 10 000
Iceland	317 900	<b>320 000</b>
Bahamas	346 000	<b>350 000</b>
Malta	416 333	<b>420 000</b>
Samoa	179 000	<b>180 000</b>
Maldives	314 000	<b>310 000</b>
Solomon Islands	536 000	<b>540 000</b>
Guyana	761 000	<b>760 000</b>
Cyprus	801 851	<b>800 000</b>
fiji	854 000	<b>850 000</b>

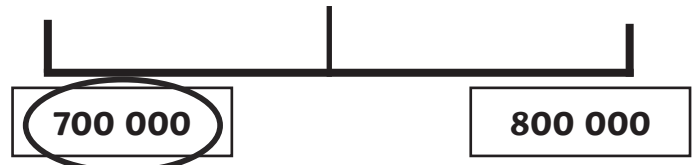
# The Nearest 100 000 Answers

Write the ten thousands either side of the given number and mark it approximately on the number line. Then circle the 10 000 to which the given number is closer. (Remember 5 (5000) goes up).

a. 302 456



b. 745 900



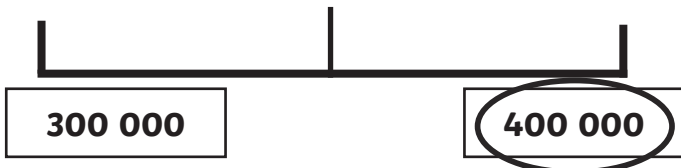
c. 201 489



d. 485 200



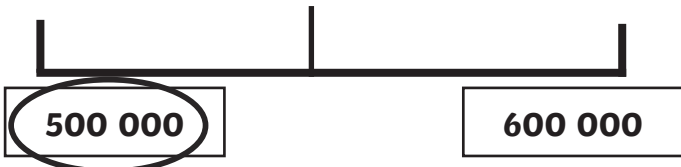
e. 350 891



f. 120 780



g. 540 400



h. 267 080



i. 782 000



j. 932 910



k. 590 800



l. 967 302



# The Nearest 100 000 (2) Answers

Round the following numbers to the nearest 100 000.

116 023	→	<b>100 000</b>	195 870	→	<b>200 000</b>
527 467	→	<b>500 000</b>	900 287	→	<b>900 000</b>
419 501	→	<b>400 000</b>	375 828	→	<b>400 000</b>
572 090	→	<b>600 000</b>	199 777	→	<b>200 000</b>
736 327	→	<b>700 000</b>	571 727	→	<b>600 000</b>
825 105	→	<b>900 000</b>	999 300	→	<b>1 000 000</b>

Round the following populations to the nearest 100 000.

Places	Population	To the nearest 10 000
Iceland	317 900	<b>300 000</b>
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Guyana	761 000	<b>800 000</b>
Cyprus	801 851	<b>800 000</b>
fiji	854 000	<b>900 000</b>

# Counting Forwards and Backwards in Powers of 10 Word Problems Answers

Answer the following questions:

1. What number is 1000 more than 3683? **4683**
2. How many less is 5693 than 5703? **10 less**
3. What number is 10 000 less than 1 234 508? **1 224 508**
4. If I add 100 to a number I get 3467. What number did I start with? **3367**
5. 23 890 is how many more than 13 890? **10 000**
6. What number is 100 more than 45 901? **46 001**
7. Add 10 000 to 270 801. **280 801**
8. If I subtract 1000 from a number I get 19 230. What number did I start with? **18 230**
9. What number is 100 000 more than 671 023? **771 023**
10. Subtract 1 000 000 from 30 782 901. **29 782 901**

Write the following as calculations and solve them.

- A.  $7503 + 1000 = 8503$   
8503 cars go over the bridge in March.**
- B.  $30\,903 - 1000 = 29\,903$   
29 903 books are in the library.**
- C.  $35\,600 - 10\,000 = 25\,600$   
She had won £25 600 before winning the £10 000.**
- D.  $34\,678 + 100\,000 = 134\,678$   
It has travelled 134 678 miles**
- E.  $305\,800 - 10\,000 = 295\,800$   
295 800 bottles were made each day in February.**

# The Nearest 10 000 and 100 000 Answers

1. 143 687

**Nearest 10 000 = 140 000**

**Nearest 100 000 = 100 000**

2. 487 245

**Nearest 10 000 = 490 000**

**Nearest 100 000 = 500 000**

3. 160 000

**This is rounded to the nearest 10 000**

**The range of precise attendance is 155 000 to 164 499**

4.  $529\,876 + 225\,621 = 755\,497$

**Nearest 10 000 = 760 000**

**Nearest 100 000 = 800 000**

5.  $534\,348 - 67\,682 = 466\,666$

**Nearest 10 000 = 470 000 tins will be left.**

6.  $75\,000 \times 5 = 375\,000$

**Nearest 10 000 = 380 000 calls per 5 day week.**

7.  $324\,923 + 591\,023 = 915\,946$

**Nearest 100 000 = 900 000 swimmers visit the pool per year.**

8.  $256\,349 + 289\,012 = 545\,361$

**Nearest 10 000 = 550 000**

**Nearest 100 000 = 500 000**

## Challenge

**If you round the numbers before calculating the answers, your answers will be more approximate and may not be the same as when you calculate first and then round.**

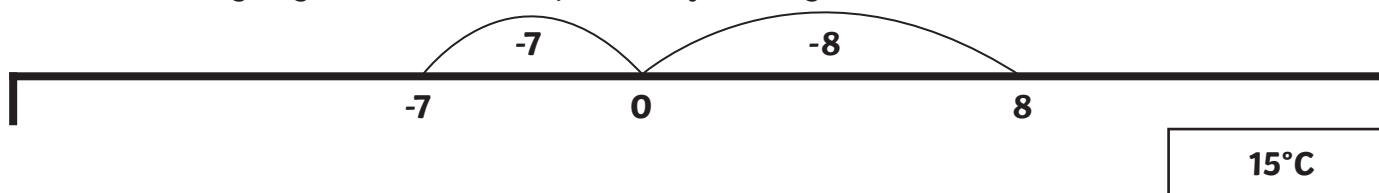


# Word Problems Involving Negative Numbers Answers

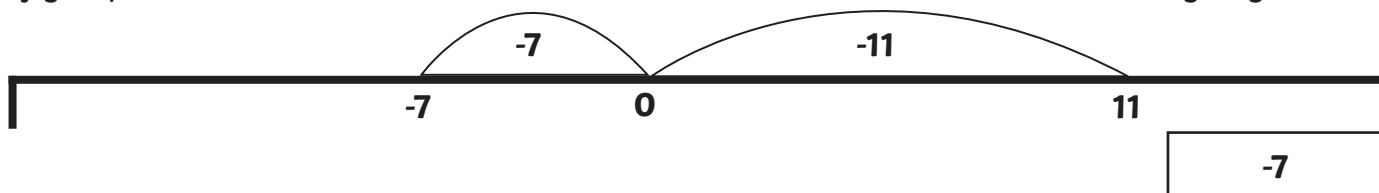
I can solve word problems involving negative numbers

Answer these questions. Adding numbers to the blank number lines may help you.

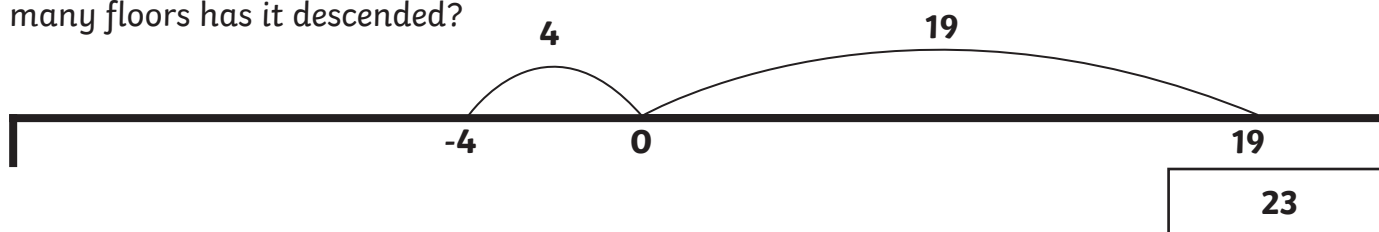
1. The temperature at 6 p.m is  $8^{\circ}\text{C}$ , at 6 a.m. the next morning the temperature has dropped to  $-7^{\circ}\text{C}$ . How many degrees has the temperature fallen by?



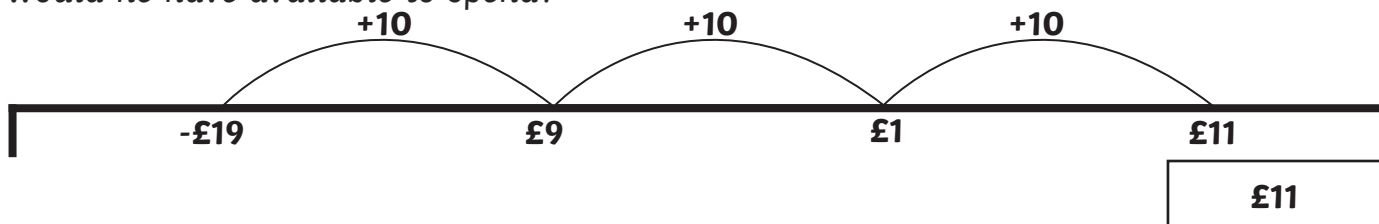
2. If you point to 11 on a number line and then count back 18, which number do you get to?



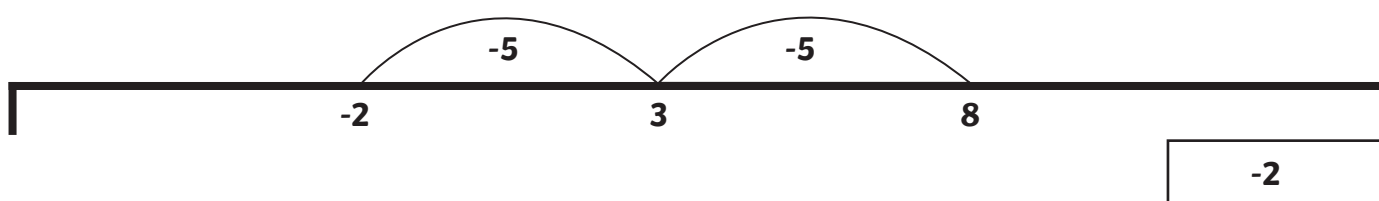
3. The elevator in a skyscraper travels from floor 19 to the underground car park on level -4. How many floors has it descended?



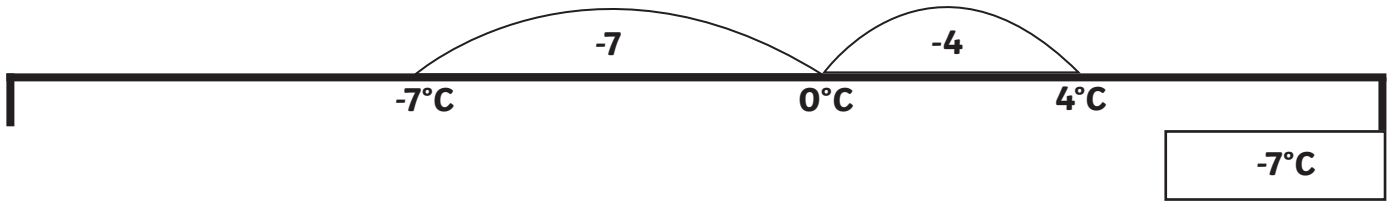
4. An overdraft is a facility which means you can have a negative amount of money in your bank account. If a saver balance of  $-\text{£}19$  and then paid  $\text{£}30$  into his bank account, how much would he have available to spend?



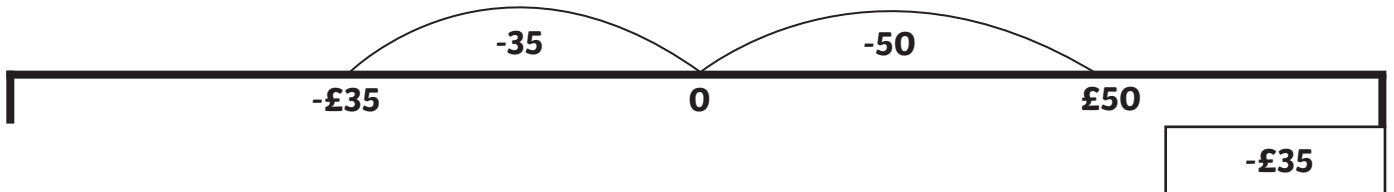
5. In a quiz, a team scores 2 points for each correct answer and loses 5 points for each wrong answer. From the start of a game, a team gets 4 questions in a row correct, but then gets two questions wrong. How many points do they have?



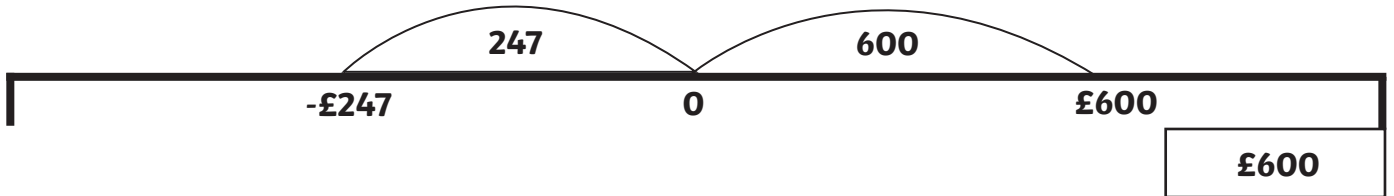
6. The temperature in New York is  $4^{\circ}\text{C}$  when the Christmas lights are switched on. By 9 a.m. the next day, the temperature has fallen by  $11^{\circ}\text{C}$ . What is the new temperature?



7. Mrs. Jones buys a pair of skis and pays for them with her debit card. The skis cost  $\pounds 85$  and she had  $\pounds 50$  in her account. What is her new balance?



8. Mr. Davies overspends during the month of September and goes  $\pounds 247$  overdrawn. How much does he have left after his October wages of  $\pounds 847$  are paid into his account?



# Roman Numerals Worksheet Answers

Translate these Roman numerals. Don't forget to show your working out!

1. MD      **1500**

4. CXVI      **116**

2. MCD      **1400**

5. DCLX      **660**

3. XXXIV      **34**

6. CXIII      **113**

Write these numbers in Roman numerals.

1. 35      **XXXV**

4. 283      **CCLXXXIII**

2. 100      **C**

5. 570      **DLXX**

3. 99      **XCIX**

6. 27      **XXVII**

Arrange these numbers in size order.

XXXV, XL, XXX, LX, LV, L, XLV, LXV

**XXX (30), XXXV (35), XL (40), XLV (45), L (50), LV (55), LX (60), LXV (65)**

CL, CCC, CCL, C, CD, CC, L, CCCL

**L (50), C (100), CL (150), CC (200), CCL (250), CCC (300), CCCL (350), CD (400)**

Count in hundreds from one hundred.

**C, CC, CCC, CD, D, DC, DCC, DCCC, CM, M**

Count in five hundreds from five hundred.

**D, M, MD, MM, MMD, MMM, MMMD**

Complete these calculations.

1. CD + DC = **CM**

4. XL + LX = **C**

2. VI + IV = **X**

5. CM + MC = **MM**

3. XI + IX = **XX**

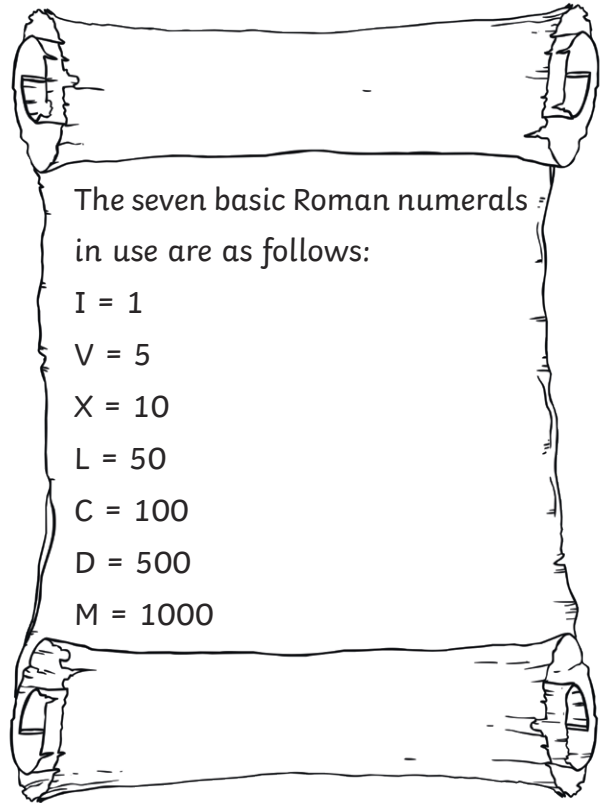
6. CX + XC = **CC**

# Roman Numerals - Recognising Years Answers

I can convert years written in Roman numerals.

The rules that must be followed for accurate use of Roman numerals are as follows:

1. Symbols are written from left to right in value order.
2. To avoid having four characters in a row, some characters can be subtracted from others when placed BEFORE them.
3. I placed before V or X indicates one less.
4. X placed before L or C indicates ten less.
5. C placed before D or M indicates a hundred less.



This is how we would translate the year 1971.

1000	900	70	1	<b>1971</b>
<b>M</b>	<b>CM</b>	<b>LXX</b>	<b>I</b>	<b>MCMLXXI</b>

1. Work out each of the following years in Roman numerals.

A.

1000	900	90	9	1999
<b>M</b>	<b>CM</b>	<b>XC</b>	<b>IX</b>	<b>MCMXCIX</b>

B.






2000	0	0	5	2005
<b>MM</b>			<b>V</b>	<b>MMV</b>

C.

1000	900	50	6	1956
<b>M</b>	<b>CM</b>	<b>L</b>	<b>VI</b>	<b>MCMLVI</b>

D.	1000	800	80	8	1888
	<b>M</b>	<b>DCCC</b>	<b>LXXX</b>	<b>VIII</b>	<b>MDCCCLXXXVIII</b>

2. Work out which year the following historical figures were born.

Who	Roman Numeral Year of Birth	Translation
 Marie Curie	MDCCCLXVI I	<b>1867</b>
 Winston Churchill	MDCCCLXXIV	<b>1874</b>
 Queen Elizabeth	MCMXXVI	<b>1926</b>
 John Lennon	MCMXL	<b>1940</b>
 You!	<b>Answers will vary</b>	<b>Answers will vary</b>

### Challenge

Can you work out how old these people were when they died and who lived the longest life?

Person	Born	Died	Age
1	CDLI = <b>451</b>	DXIII = <b>513</b>	<b>62</b>
2	MDCCCLXXIII = <b>1773</b>	MDCCCXXIV = <b>1824</b>	<b>51</b>

**Person 1 lived the longest life.**