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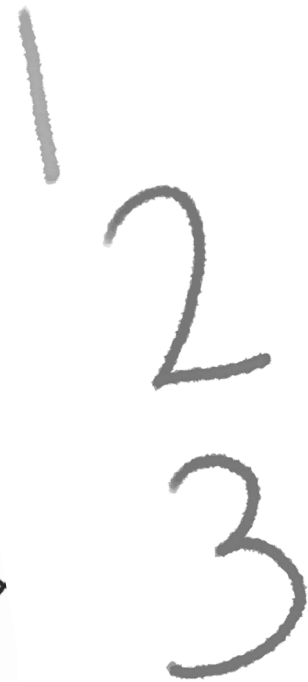
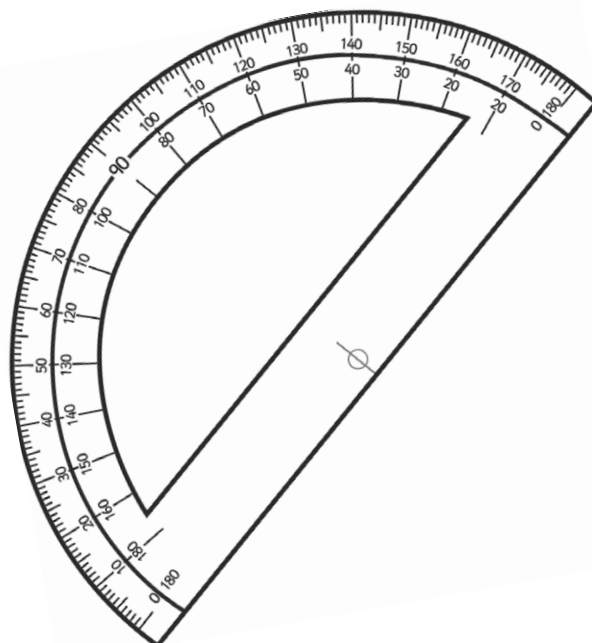
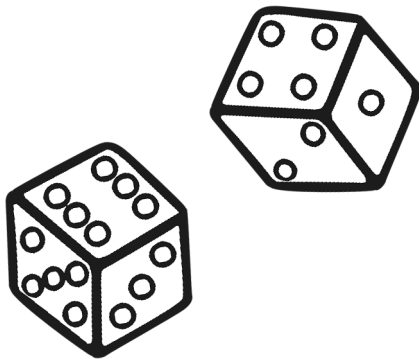
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Year 5 Maths Number and Place Value Workbook - Answers



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	Number Partitioning Worksheet Ordering Numbers Worksheet Writing Numbers in Words	4 5 - 7 8 - 10	
Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	Counting in Multiples of 10 from any number Counting forwards or backwards in Powers of Ten Counting Back in Powers of Ten Worksheets	11 12 13 - 15	
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0	Counting Forwards and Backwards with Positive and Negative Whole Numbers	16	
Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	Match the thousand to the number rounding worksheet. Rounding 10000's worksheet Rounding 100000's worksheet	17 18 - 19 20 - 21	
Solve number problems and practical problems that involve all of the above	Counting Forwards and Backwards in Powers of 10 Word Problems Word Problems Worksheet Word Problems involving Negative Numbers.	22 23 24	

Year 5 Programme of Study – Number and Place Value

Statutory Requirements	Worksheet	Page Number	Notes
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals	Roman Numerals Worksheet Roman Numerals – Recognising Years	25 26	

Hundred Thousands, Ten Thousands, Thousands, Hundreds, Tens and Ones – Partitioning

1. $\begin{array}{|c|c|c|c|c|} \hline 3 & 4 & 7 & 8 & 9 \\ \hline \end{array} = 30\,000 + 4\,000 + 700 + 80 + 9$

2. $\begin{array}{|c|c|c|c|c|} \hline 2 & 9 & 5 & 9 & 3 \\ \hline \end{array} = 20\,000 + 9\,000 + 500 + 90 + 3$

3. $\begin{array}{|c|c|c|c|c|c|} \hline 4 & 0 & 9 & 6 & 7 & 1 \\ \hline \end{array} = 400\,000 + 9\,000 + 600 + 70 + 1$

4. $\begin{array}{|c|c|c|c|c|c|} \hline 3 & 1 & 2 & 0 & 2 & 4 \\ \hline \end{array} = 300\,000 + 10\,000 + 2\,000 + 20 + 4$

5. $\begin{array}{|c|c|c|c|c|c|} \hline 6 & 9 & 0 & 1 & 9 & 5 \\ \hline \end{array} = 600\,000 + 90\,000 + 100 + 90 + 5$

6. $\begin{array}{|c|c|c|c|c|c|} \hline 7 & 0 & 6 & 8 & 1 & 2 \\ \hline \end{array} = 700\,000 + 6\,000 + 800 + 10 + 2$

7. $\begin{array}{|c|c|c|c|c|c|} \hline 4 & 5 & 0 & 3 & 4 & 8 \\ \hline \end{array} = 400\,000 + 50\,000 + 300 + 40 + 8$

8. $\begin{array}{|c|c|c|c|c|c|} \hline 1 & 1 & 3 & 1 & 1 & 3 \\ \hline \end{array} = 100\,000 + 10\,000 + 3\,000 + 100 + 10 + 3$

9. $\begin{array}{|c|c|c|c|c|c|} \hline 9 & 9 & 8 & 9 & 0 & 9 \\ \hline \end{array} = 900\,000 + 90\,000 + 8\,000 + 900 + 9$

Ordering Numbers to 10 000

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



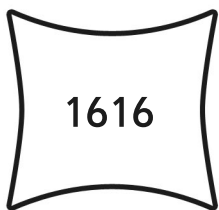
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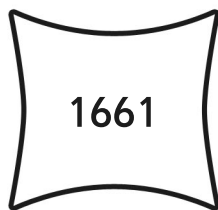
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1661



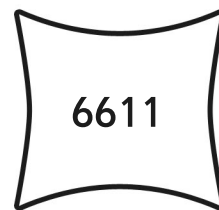
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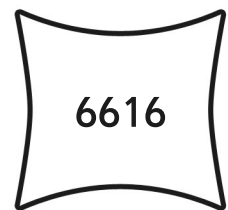
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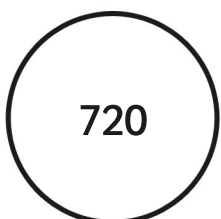
6611



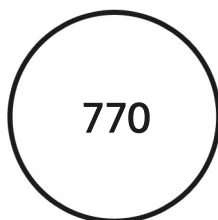
6616



7220



2770



770



720



2707



Ordering Numbers to 100 000

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



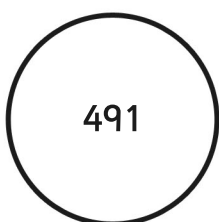
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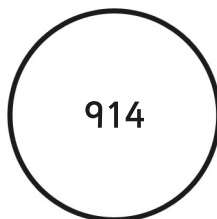
25 622



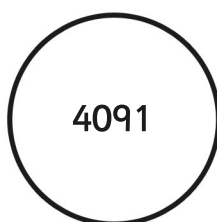
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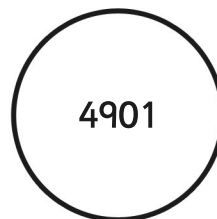
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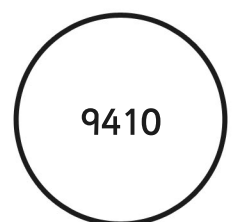
4901



914



9410



Ordering Numbers to 1 000 000

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

245 452



254 245



45 254



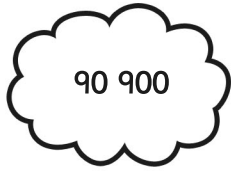
452 524



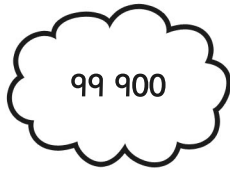
54 542



90 900



909 009



999 909



990 009



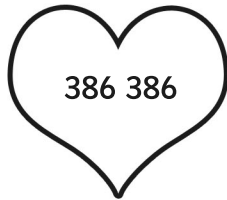
99 900



368 863



683 836



683 863



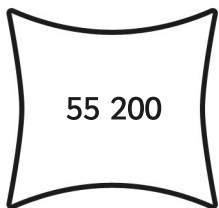
836 368



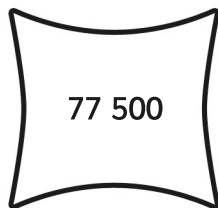
386 386



725 500



527 700



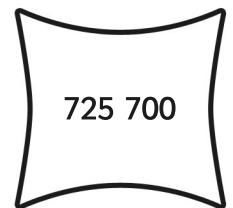
77 500



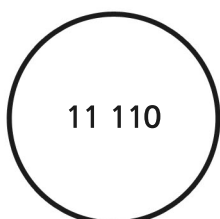
55 200



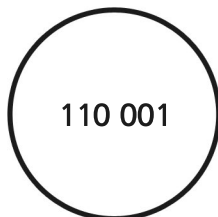
725 700



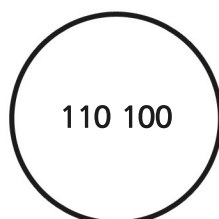
110 001



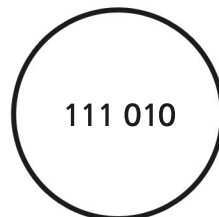
111 010



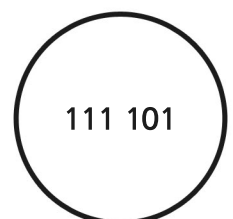
11 110



111 101



110 100



Writing Numbers to 1 000 000 in Words

Write the following numbers in words:

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

Writing Words to 1 000 000 in Numbers

Write the following words in numbers:

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

Writing Numbers to 1 000 000 in Words and Numbers

Write the following in words and in numbers:

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

Counting in Multiples of 10

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



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

Counting on and Back in Powers of 10

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

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

Counting Back in Powers of 10

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

85	75	65	55	45
137	127	117	107	97
652	642	632	622	612
901	891	881	871	861
3087	3077	3067	3057	3047
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
--------	--------	--------	--------	--------

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

431	331	231	131	31
900	800	700	600	500
3312	3212	3112	3012	2912
9028	8928	8828	8728	8628
37 920	37 820	37 720	37 620	37 520
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
---------	---------	---------	---------	---------

Counting Back in Powers of 10 (2)

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	9450
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
---------	---------	---------	---------	---------

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

43 920	33 920	23 920	13 920	3920
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	235 400
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
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Counting Back in Powers of 10 (3)

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

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

Spot the error in this sequence:

52 900 000	51 900 000	51 800 000	49 900 000	48 900 000
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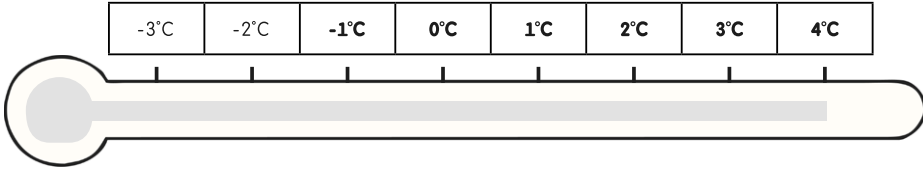
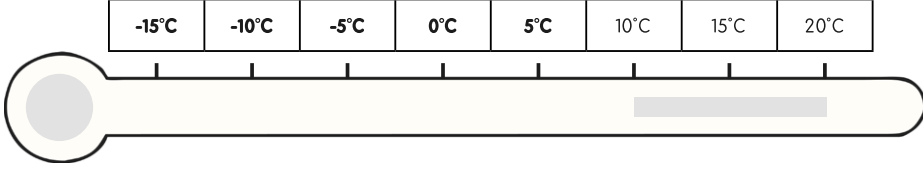
Count back from the given numbers in **1 000 000s** (some answers are given)

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

Spot the error in this sequence:

778 100 000	777 100 000	776 100 000	776 900 000	774 100 000
-------------	-------------	-------------	-------------	-------------

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

question	answer
1.	
	
2.	
	
3.	
	-7°C, -4°C, -1°C, 2°C, 5°C, 8°C, 11°C, 14°C, 17°C, 20°C
4.	
	-19°C, -13°C, -7°C, -1°C, 5°C, 11°C, 17°C, 23°C
5.	
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.	
a	Moscow
b	London
c	Edinburgh
d	Minsk

The Nearest 1000

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

Challenge

Make your own for a friend to check. Some boxes have been completed or partly completed already. You need to include the arrows.

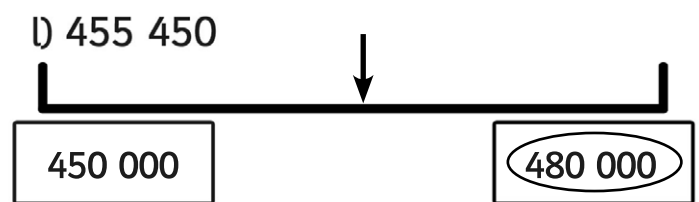
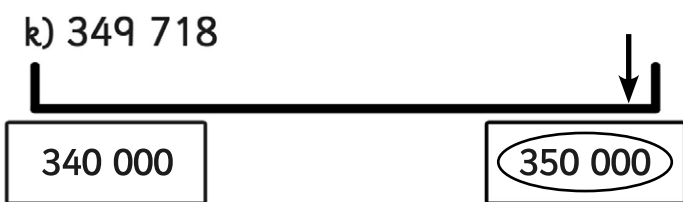
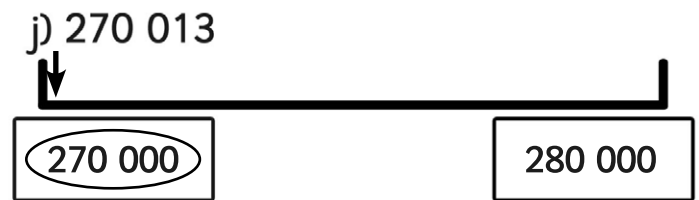
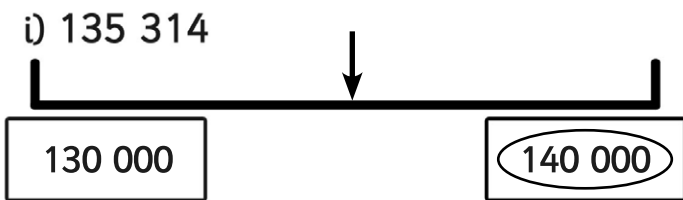
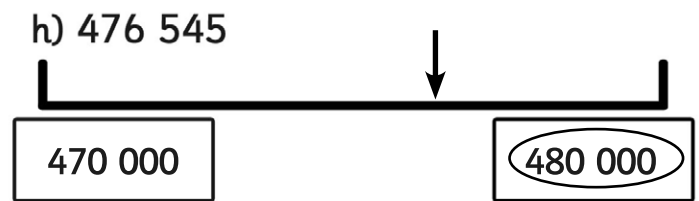
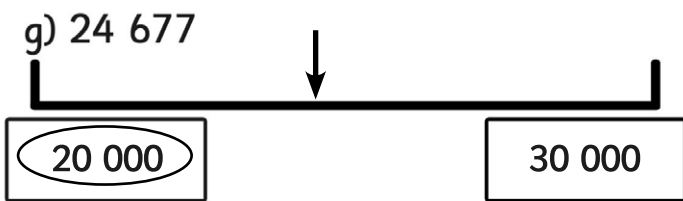
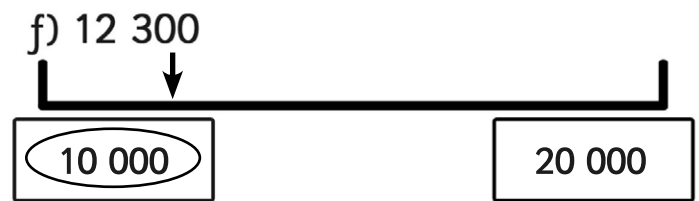
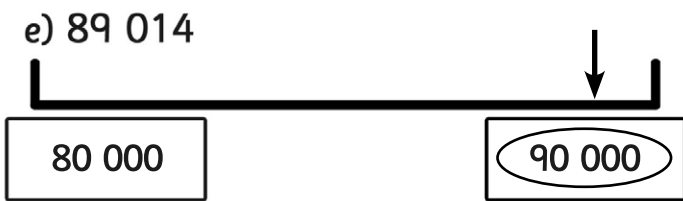
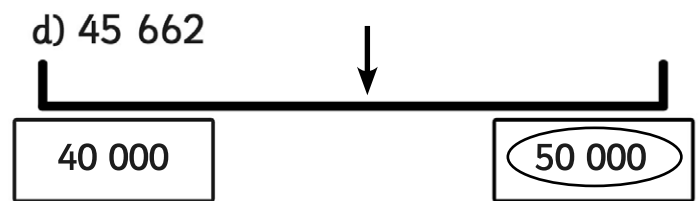
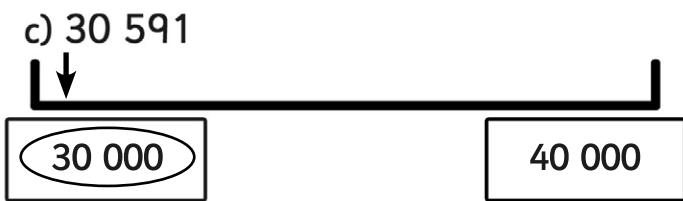
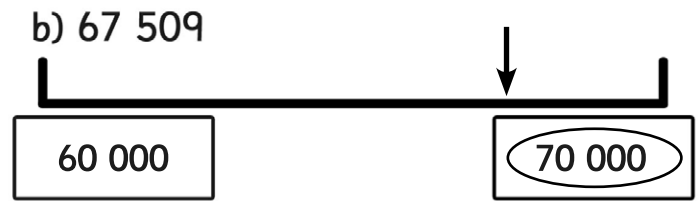
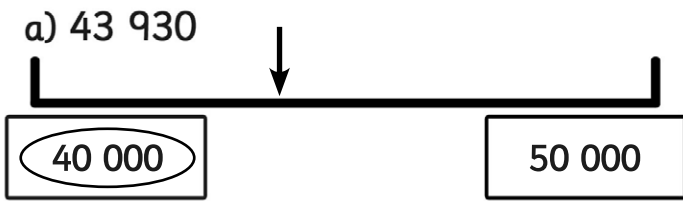
56 014
455 023

nearest
nearest
nearest 10
nearest
nearest 100
nearest
nearest 1000

35 000
600 000

The Nearest 10 000

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).



The Nearest 10 000 (2)

Round the following numbers to the nearest 10 000.

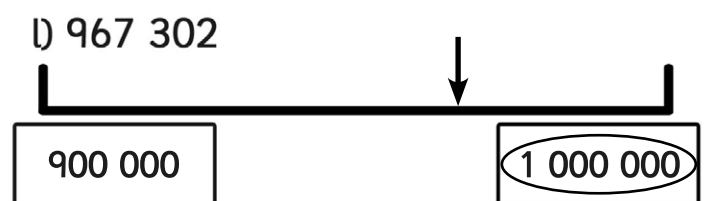
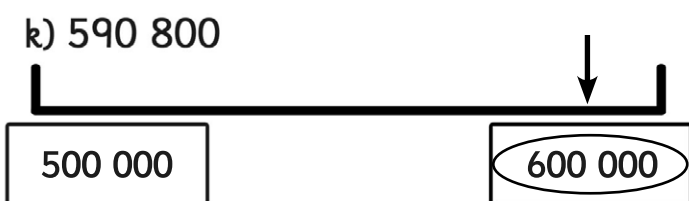
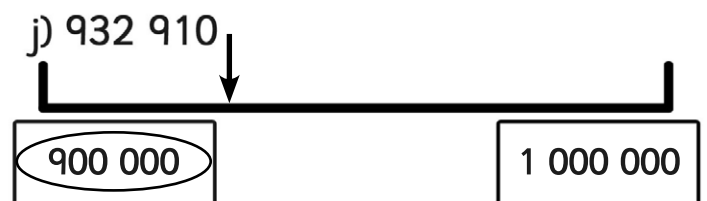
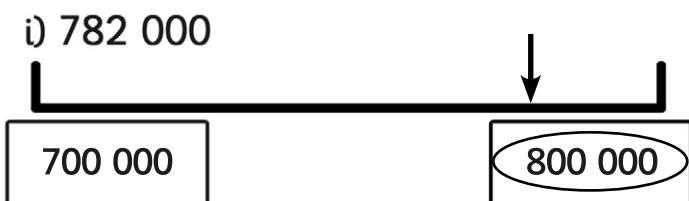
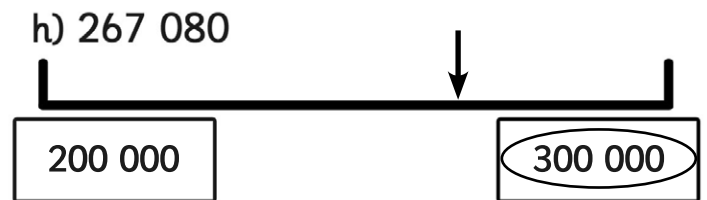
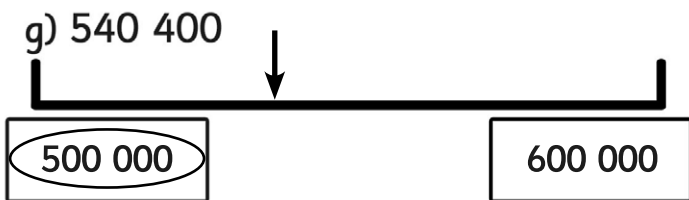
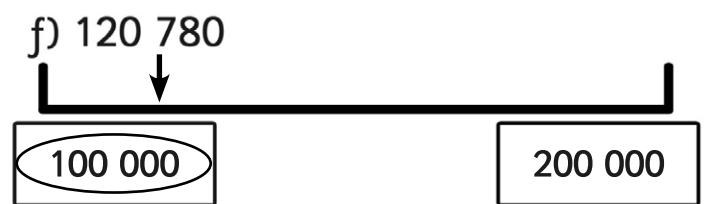
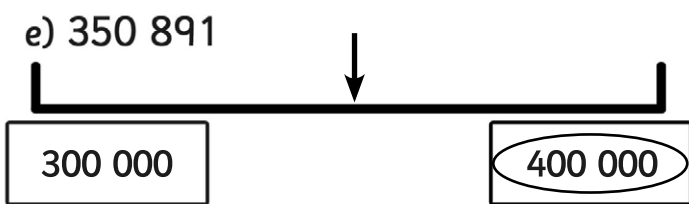
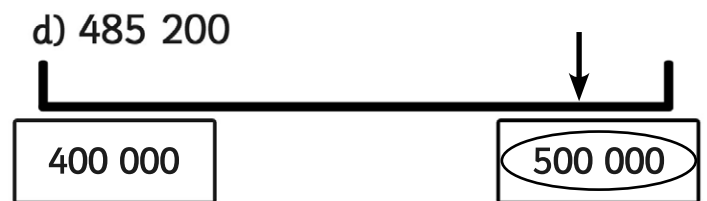
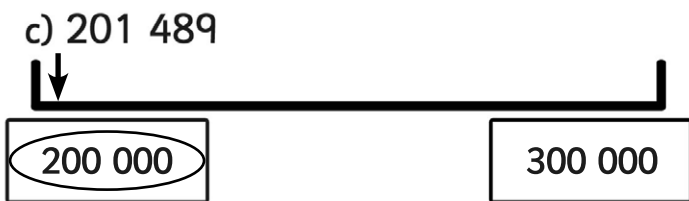
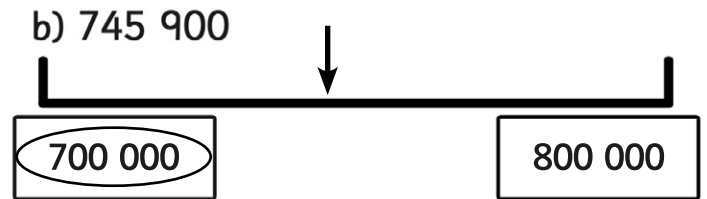
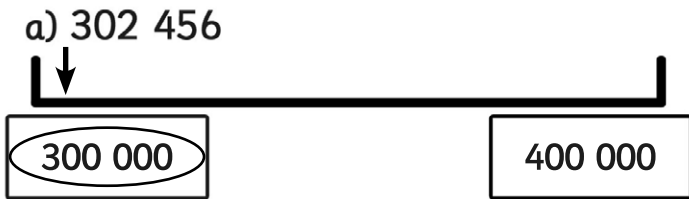
16 023 → 20 000	120 532 → 120 000	195 870 → 200 000
27 467 → 30 000	244 665 → 240 000	200 287 → 200 000
49 501 → 50 000	315 500 → 320 000	375 828 → 380 000
62 090 → 60 000	455 838 → 460 000	199 777 → 200 000
76 327 → 80 000	626 112 → 630 000	471 727 → 470 000
92 105 → 90 000	731 008 → 730 000	999 300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

Round the following populations to the nearest 10 000.

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

The Nearest 100 000

Write the hundred 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 (50 000) goes up).



The Nearest 100 000 (2)

Round the following numbers to the nearest 100 000.

116 023 →	100 000	195 870 →	200 000
527 467 →	500 000	900 287 →	900 000
419 501 →	400 000	375 828 →	400 000
572 090 →	600 000	199 777 →	200 000
736 327 →	700 000	571 727 →	600 000
852 105 →	900 000	999 300 →	1 000 000

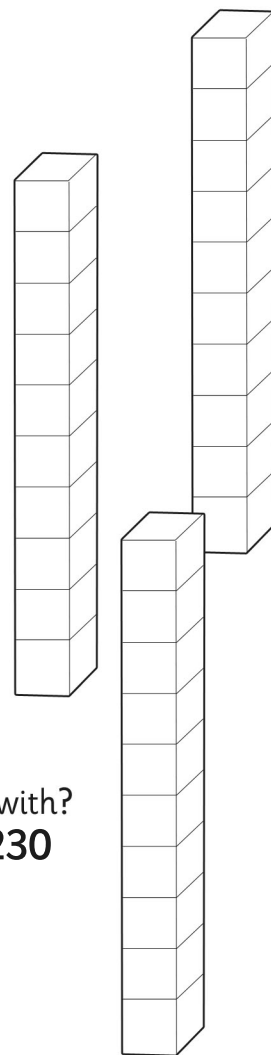
Round the following populations to the nearest 100 000.

Places	Population	to the nearest 100 000
Iceland	317 900	300 000
Bahamas	346 000	300 000
Malta	416 333	400 000
Samoa	179 000	200 000
Maldives	314 000	300 000
Solomon Islands	536 000	500 000
Guyana	761 000	800 000
Cyprus	801 851	800 000
Fiji	854 000	900 000

Counting Forwards and Backwards in Powers of 10 Word Problems

Answer the following questions:

1. What number is 1000 more than 3683? **4683**
2. How many less is 5693 than 5703? **10**
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?
20 230
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 cars go over a bridge in February. In March, 1000 more cars go over the bridge than in February. How many go over the bridge in March? **$7503 + 1000 = 8503$**

B. There are 30 903 books in a mobile library collection, but 1000 of these are on loan. How many books are left in the library? **$30 903 - 1000 = 29 903$**

C. A girl wins £10 000 for winning a tennis competition. She has now won £35 600 in prize money altogether. How much had she won before winning the £10 000?

$$35 600 - 10 000 = \text{£}25 600$$

D. A car has 34 678 miles on the milometer, but it had already travelled 100 000 miles. How many miles has it travelled altogether? **$34 678 + 100 000 = 134 678$**

E. A factory makes 305 800 glass bottles a day in March, which is 10 000 more than it made in February. How many bottles did it used to make each day in February?

$$305 800 - 10 000 = 295 800$$

The Nearest 10 000 and 100 000

Solve the following word problems, rounding the answer as instructed.

1. A supermarket sells 143 687 litres of milk in one month.

How many litres is this to the nearest 10 000 and nearest 100 000?

140 000 and 100 000



2. There are 487 245 spectators at all the Premier League football matches on a Saturday.

How many is this to the nearest 10 000 and nearest 100 000?

490 000 and 500 000

3. A newspaper reports that about 160 000 people attended a parade.

How is this rounded and what is the range of the precise attendance?

To the nearest 10 000 and 155 000 - 164 999



4. 529 876 adults and 225 621 children visit a zoo in one year.

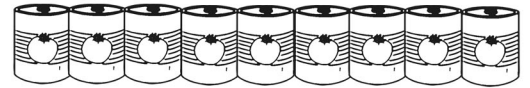
To the nearest 10 000 and nearest 100 000, how many people visit the zoo altogether?

760 000 and 800 000

5. A supermarket has 534 348 tins of tomatoes at a distribution centre.

It sends out 67 782 in one shipment. To the nearest 10 000, how many will be left?

470 000



6. A call centre receives about 75 000 calls per day.

To the nearest 10 000, how many calls does it receive in a working week (5 days)?

380 000



7. A swimming pool has 324 923 swimmers in the main pool and 591 023 swimmers in the leisure pool in one year.

To the nearest 100 000, how many swimmers do both pools get over the whole year?

900 000

8. A lorry driver travels 256 349 miles in one year, and 289 012 miles in the following year.

To the nearest 10 000 and 100 000, how many miles does the driver travel in both years?

550 000 and 500 000

Word Problems Involving Negative Numbers: Answers

question	answer
1	15°C
2	-7
3	23
4	£11
5	-2
6	-7°C
7	-£35
8	£600

Roman Numerals Worksheet

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 _____ IC _____

6. 27 _____ XXVII _____

Arrange these numbers in size order.

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

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

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

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

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 = _____ M _____

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

question	answer
A.	
a	M, CM, XC, IX, MCMXCIX
b	MM, -, -, V, MMV
c	M, CM, L, VI, MCMLVI
d	M, DCCC, LXXX, VIII, MDCCCLXXXVIII
B.	
	Marie Curie: 1867
	Winston Churchill: 1874
	Queen Elizabeth II: 1926
	John Lennon: 1940
Challenge.	
	Person 1 Born: 451 Died: 512 Lived for 61 years Person 2 Born: 1773 Died: 1824 Lived for 51 years