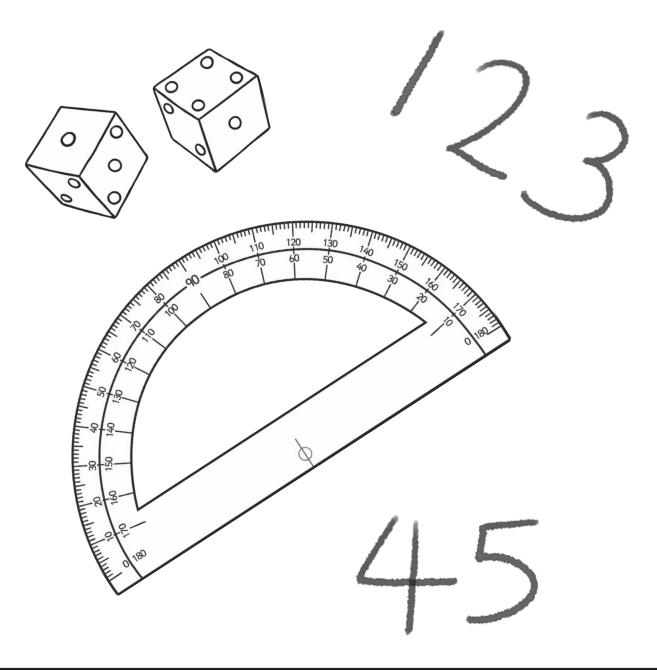
Year 5 Maths Number and Place Value Workbook





Home Learning Year 5 Maths Workbook Pack

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 th e value of each digit.	 Number Partitioning Worksheet Ordering Numbers Worksheet Writing Numbers in words 	3 4 - 6 7 - 9	
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 	10 11 12 - 14	
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, inluding through 0.	Counting Forwards and Backwards with Positive and Negatie Whole Numbers	15 - 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 10 000's worksheet Rounding 100 000's worksheet 	17 18 - 19 20 - 21	





Home Learning Year 5 Maths Workbook Pack

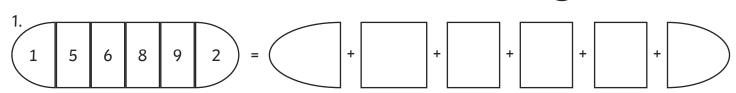
Year 5 Programme of Study - Number and Place Value

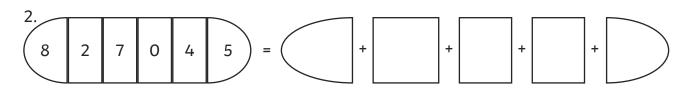
Statutory Requirements	Worksheet	Page Number	Notes
Solve number problems and practical problems that involve all of the above.	 Counting Forwards and Backwards in Powers of 10 Word Problems Word Problems Worksheet Word Problems involving Negative Numbers. 	22 23 24 - 25	
Read Roman numerals to 1000 (M)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

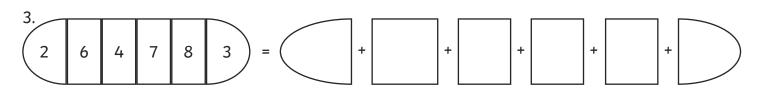




Number Partitioning









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	4994	449
1161	6161	1616	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	24 654	25 622
4091	491	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 words in numbers:

23 443	Twenty-three thousand, four hundred and forty-three
51 623	
78 785	
33 091	
60 696	
402 341	
589 130	
645 099	
840 781	
709 118	
112 098	
245 590	
390 519	
101 010	





Writing Numbers 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	
Nine hundred and thirteen thousand, five hundred and forty-one	
Seven hundred and fifteen thousand, two hundred and twenty-eight	
Four hundred and six thousand, seven hundred and ninety-four	
Nine hundred and thirty-six thousand, two hundred and fifty-five	
One hundred and seventeen thousand and four	
Five hundred and thirty-five thousand, seven hundred and six	
Two hundred thousand and twenty-two	
Four hundred and eighty-eight thousand and sixty	
Eight hundred and forty-eight thousand, nine hundred and three	
Nine hundred and ninety-one thousand, one hundred and nineteen	
One hundred and ninety-nine thousand, nine hundred and nineteen	
Five hundred and fifteen thousand, one hundred and fifty-one	





Writing Numbers to 1 000 000 in Words and Numbers

Write the following words in words and in numbers:

56 601
90 452
345 327
880 880
666 000
797 779
340 819





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	+10	+10	+10	+10	
879 213 + 20	+20	+20	+20	+20	
756 128 + 50	+50	+50	+50	+50	
919 399 + 60	+60	+60	+60	+60	
754 321 - 10	-10	-10	-10	-10	
134 094 - 70	-70	-70	-70	-70	

START	394 492	394 585	394 705	394 505	394 805	394 905
394 432	374 472	374 303	374 703	374 303	374 003	374 703
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
393 565	393 798	393 411	393 162	393 132	393 082	394 012
393 565	202 164	202 27/	202 6/.1	393 445	393 052	FINISH
373 303	373 100	373 374	373 041	373 443	373 032	393 982



Counting on and Back in Powers of 10

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

1	546 556	ó			_
2	478	678			_
3	4503 _			4803	
4		67		37	
5	4904 _			5204 _	
6	7834 _	5	834		
7	12 034				8034
8	23 894	33 894			
9		55 903		35 903	
10	190 780		390 780		
11	345 000			315 000	
12	786 457	886 457			
13			212 903	112 903	
14	1 347 500				1 347 900
15	23 678 340	24 678 3	340		
16	83 900 000			_ 80 900	000
17			510 000 00	00 520 0	000 000





Counting Back in Powers of 10

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

1. 85 75

2. 137 117

3. 652 622

4. 901 861

5. 3087

6. 66 815

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)

1. 431 231

2. 900 600

3. 3312 3212

4. 9028 8628

5. 37 920

6. 209 372

Spot the error in this sequence:

191 902

191 802

190 902

189 802

188 802



Counting Back in Powers of 10 (2)

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

1. 4523 ____ 523

2. 9000 _____ 6000 ____

4. 102 342 _____ 100 342 ____

6. 1 341 299

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)

1. 43 920 33 920 _____ ___ ____

2. 71 302 41 302

3. 90 000 ____ 50 000

4. 275 400 _____ 255 400 ____

5. 733 450 _____ ___ ____

Spot the error in this sequence:

3 610 000 3 510 000 3 500 000 3 310 000 3 210 000

Counting Back in Powers of 10 (3)

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

1. 690 382 _____ 490 382 ____ ___

2. 968 900 _____ 568 900

4. 2 400 000 ____ 2 100 000 ____

6. 14 170 000 _____ ___ _____

Spot the error in this sequence:

52 900 000 51 900 000 51 800 000 49 900 000 48 900 000

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

1. 4 800 000 1 800 000

2. 7 034 200 ____ 5 034 200 ____

4. 37 803 549 33 803 549

6. 231 500 000 _____ ___ _____

Spot the error in this sequence:

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

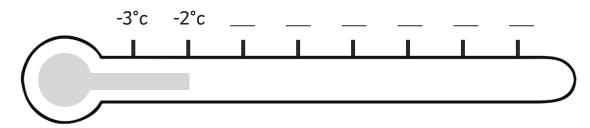




Counting Forwards and Backwards with Positive and Negative Whole Numbers

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

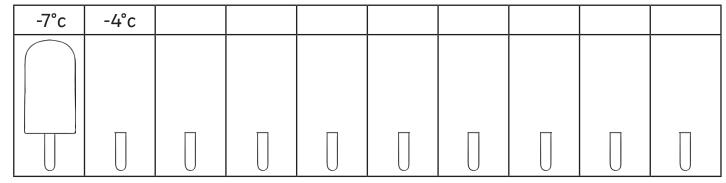




2. Shade the thermometer lightly up to 20°C. Count backwards to continue this sequence and rub out as you go.



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.



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

___ ___ 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.

25-24-23-22-21 20-19-17-16-15-14-13-12-11-10-9-9-7-6-5-4-9-2-9-0-1-2-8-4-5-6-7-8-9-10-11-12-18-14-15-16-17-18-19-20-21-22-28-24-25-

A. 3 5 7

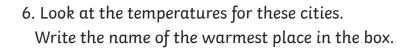
B. -17°c -12°c -7°c __ _ _

C. __ _ _ 4 9 __ 19

D. -31 __ __ _ _ _ _ _ _ 17 20

E. __ __ £6 £2 __ __

F. __ _ _ _ _ 11°c 15.5°c 20°c





Α.	New York	Moscow	Warmest
	-3°c	-1°c	

B.	Reykjavik	London	Warmest
	-10°c	-3°c	

C.	Stockholm	Edinburgh	Warmest
	-4°c	-1°c	

D.	Minsk	St. Petersburg	Warmest
	-15°c	-17°c	

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	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

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

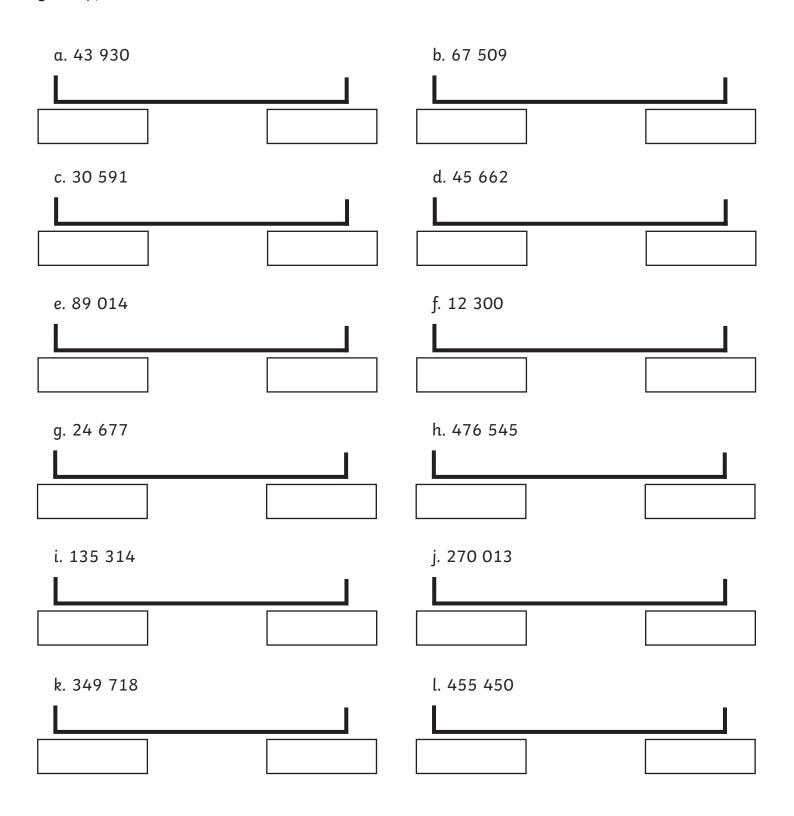
	Nearest	
56 014	Nearest	35 000
	Nearest 10	
	Nearest	
455 023	Nearest 100	600 000
	Nearest	
	Nearest 1000	





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	120 532	195 870
27 467	244 665	200 287
49 501	315 500	375 828
62 090	455 838	199 777
76 327	626 112	471 727
92 105	731 008	999 300

Round the following populations to the nearest 10 000.

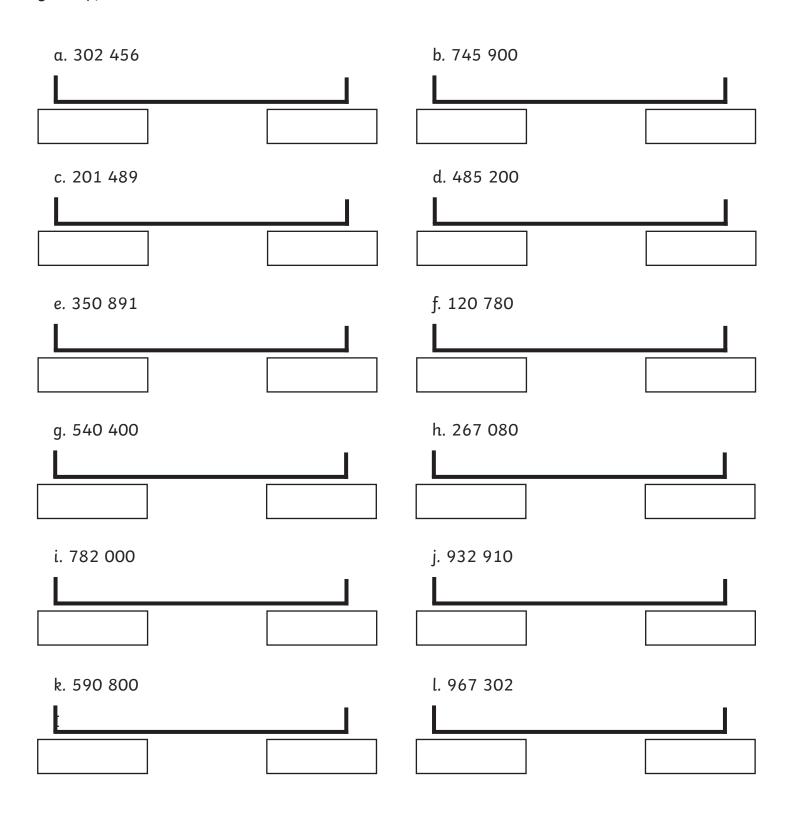
Places	Population	To the nearest 10 000
Iceland	317 900	
Bahamas	346 000	
Malta	416 333	
Samoa	179 000	
Maldives	314 000	
Solomon Islands	536 000	
Guyana	761 000	
Cyprus	801 851	
fiji	854 000	





The Nearest 100 000

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 100 000 (2)

Round the following numbers to the nearest 100 000.

116 023	195 870
527 467	900 287
419 501	375 828
572 090	199 777
736 327	571 727
825 105	999 300

Round the following populations to the nearest 100 000.

Places	Population	To the nearest 10 000
Iceland	317 900	
Bahamas	346 000	
Malta	416 333	
Samoa	179 000	
Maldives	314 000	
Solomon Islands	536 000	
Guyana	761 000	
Cyprus	801 851	
fiji	854 000	





Counting Forwards and Backwards in Powers of 10 Word Problems

Answer the following questions:

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

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?
- 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?
- 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?
- 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?
- 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?





The Nearest 10 000 and 100 000

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

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?



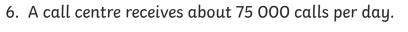
- 2. There are 487 245 spectators at all the Premier League football matches on a Saturday. How many is this to the nearest 10 000 and nearest 100 000?
- 3. A newspaper reports that about 160 000 people attended a parade.

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

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?



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

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?

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?

Challenge

What happens if you round the numbers in the questions, then calculate the answers?





Word Problems Involving Negative Numbers

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°C, at 6 a.m. the next morning the temperature -7°C. How many degrees has the temperature fallen by?	has dropped to
2.	If you point to 11 on a number line and th.en count back 18, which number d	o you get to?
3.	The elevator in a skyscraper travels from floor 19 to the underground car park many floors has it descended?	on level -4. How
4.	An overdraft is a facility which means you can have a negative amount of bank account. If a saver balance of -£19 and then paid £30 into his bank accound he have available to spend?	• •
5.	In a quiz, a team scores 2 points for each. correct answer and loses 5 points answer. From the start of a game, a team gets 4 questions in a row correct, but questions wrong. How many points do they have?	•





ó.	The temperature in New York is 4°C when the Christmas lights are switched o next day, the temperature has fallen by 11 °C. What is the new temperature?	n. By 9 a.m the
7.	Mrs. Jones buys a pair of skis and pays for them with her debit card. The sk she had £50 in her account. What is her new balance?	is cost £85 and
3.	Mr. Davies overspends during the month of September and goes £247 overdra does he have left after his October wages of £847 are paid into his account?	wn. How much



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Roman Numerals Worksheet

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

Write these numbers in Roman numerals.

Arrange these numbers in size order.

Count in hundreds from one hundred.

Count in five hundreds from five hundred.

Complete these calculations.

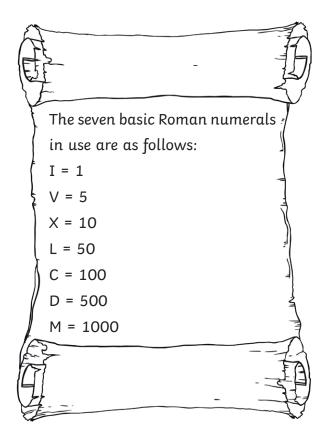


Roman Numerals - Recognising Years

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	1971
М	СМ	LXX	I	MCMLXXI

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

Α.	1000	900	90	9	1990

В.	2000	0	0	5	2005

C.	1000	900	50	6	1956





D. 1000 800 80 8 1888

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

Who	Roman Numeral Year of Birth	Translation
Marie Curie	MDCCCLXVI I	
Winston Churchill	MDCCCLXXIV	
Queen Elizabeth	MCMXXVI	
John Lennon	MCMXL	
You!		

Challenge

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

