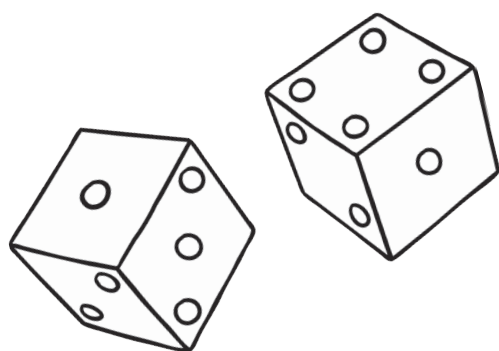
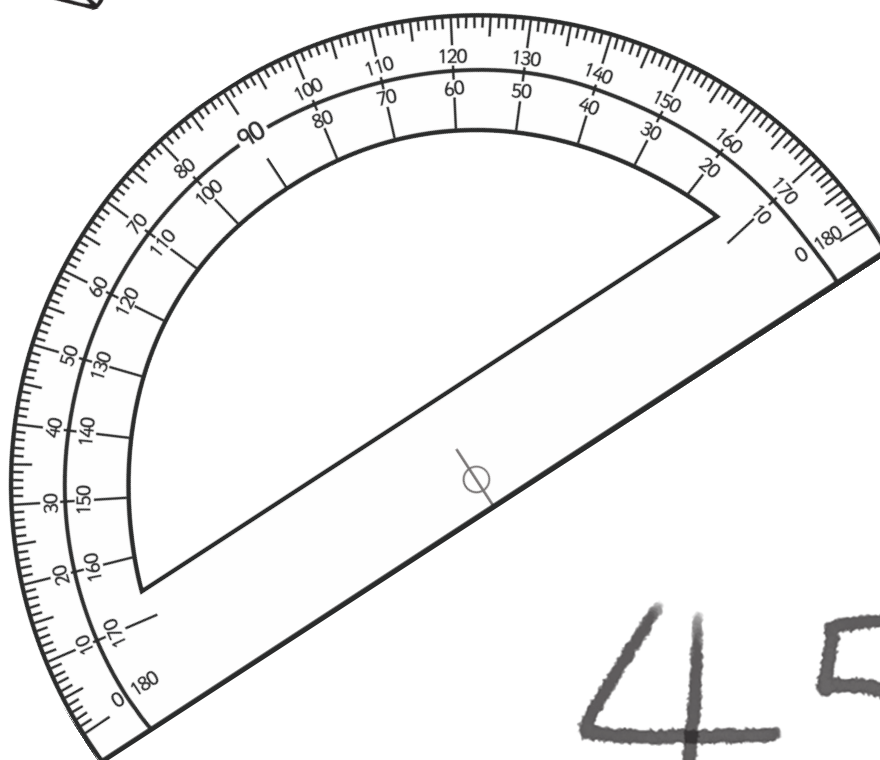


Year 5 Maths Number and Place Value Workbook



123



45

Home Learning Year 5 Maths Workbook Pack

Year 5 Programme of Study - Number and Place Value

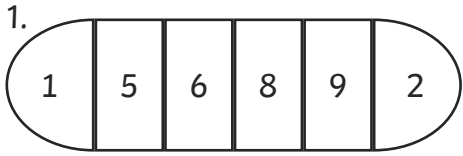
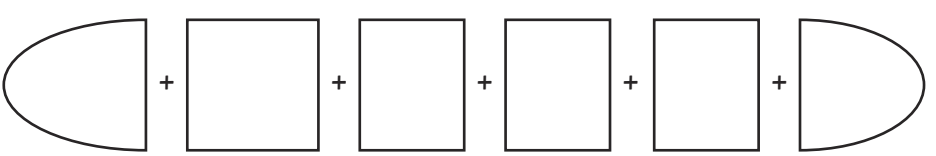
Statutory Requirements	Worksheet	Page Number	Notes
Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit.	• Number Partitioning Worksheet • Ordering Numbers Worksheet • Writing Numbers in words	3 4 - 6 7 - 9	
Count forwards or backwards in steps of powers 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, including through 0.	• Counting Forwards and Backwards with Positive and Negative 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	

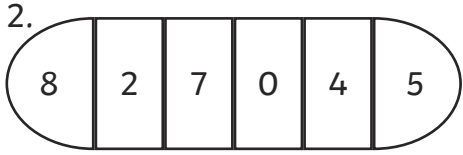
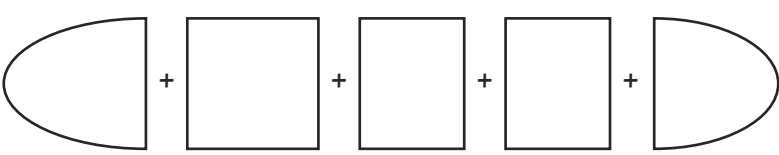
Home Learning Year 5 Maths Workbook Pack

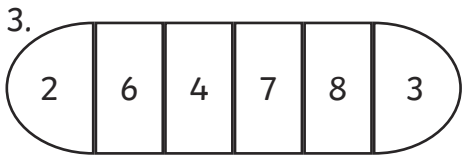
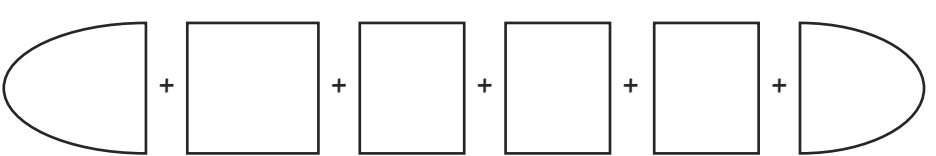
Year 5 Programme of Study - Number and Place Value

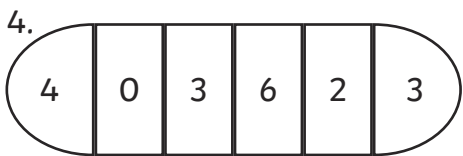
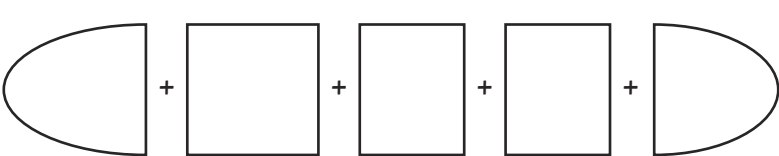
Statutory Requirements	Worksheet	Page Number	Notes
Solve number problems and practical problems that involve all of the above.	- Counting Forwards and Backwards in Powers of 10 Word Problems - Word Problems Worksheet - Word Problems involving Negative Numbers.	22 23 24 - 25	
Read Roman numerals to 1000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

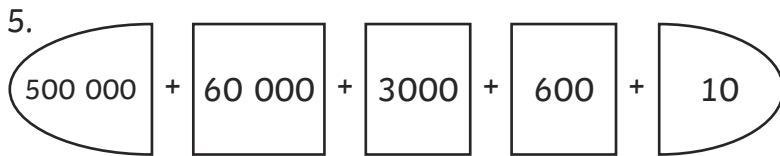
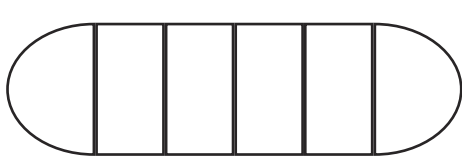
Number Partitioning

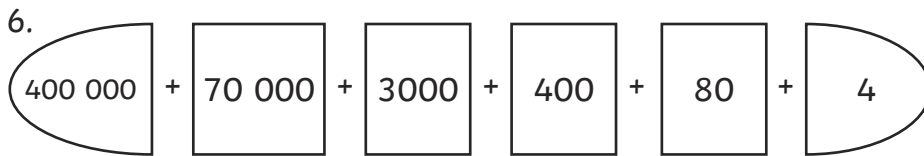
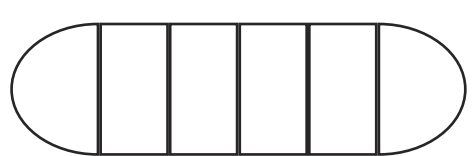
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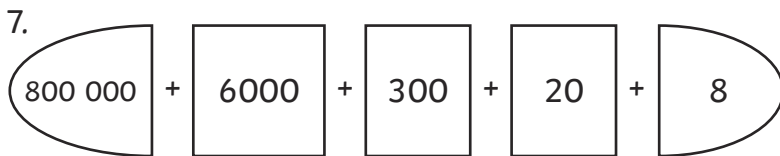
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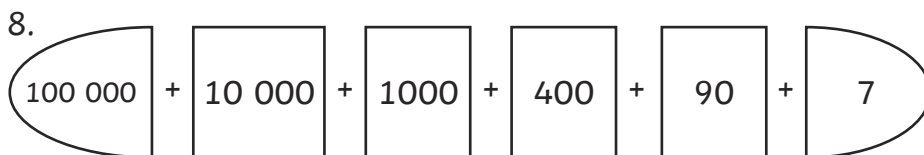
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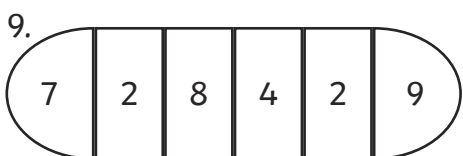
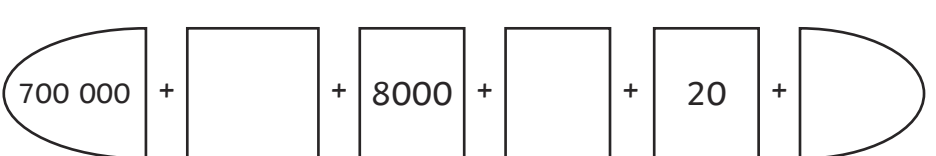
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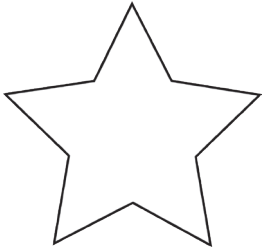
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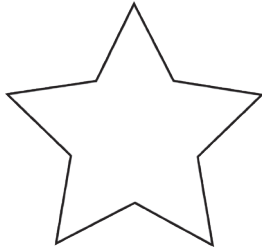
Ordering Numbers to 10 000

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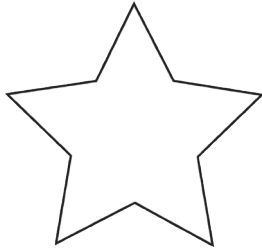
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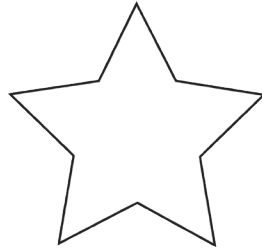
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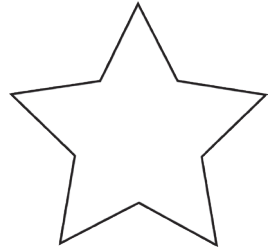
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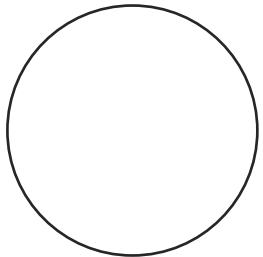
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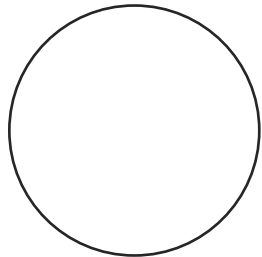
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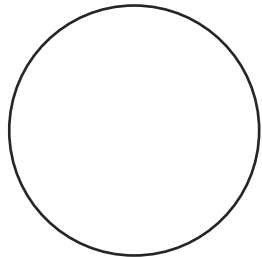
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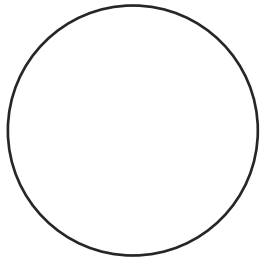
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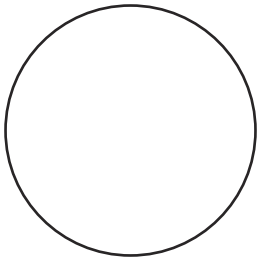
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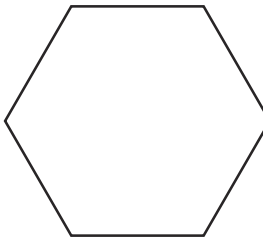
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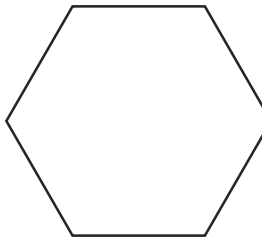
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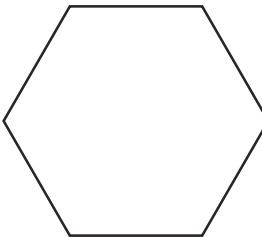
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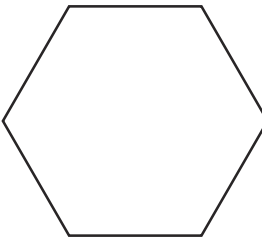
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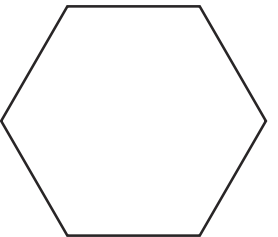
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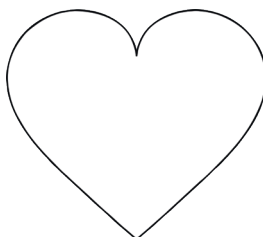
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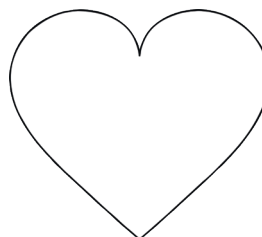
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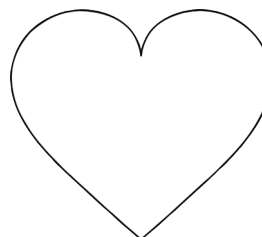
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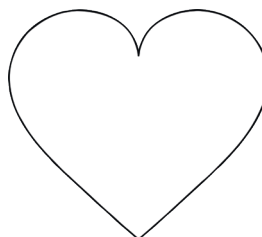
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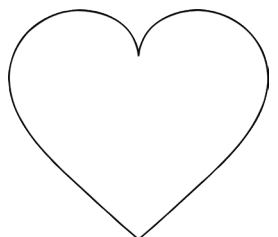
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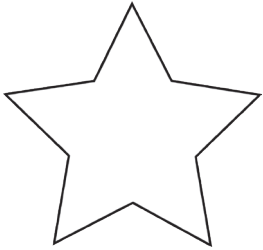
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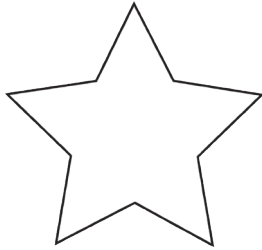
Ordering Numbers to 100 000

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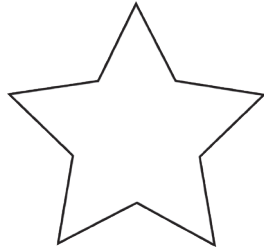
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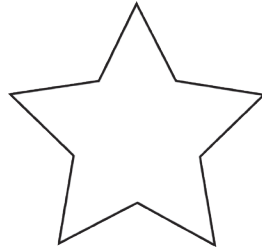
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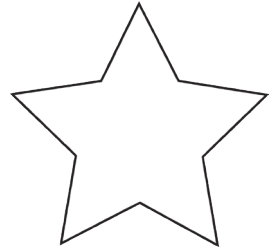
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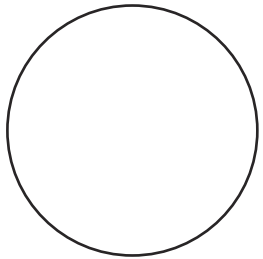
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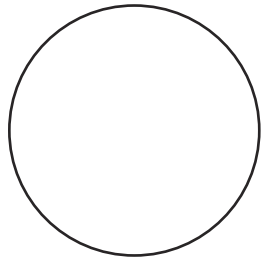
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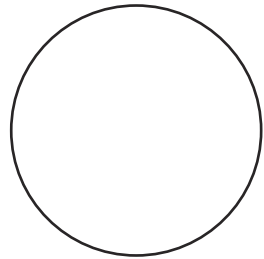
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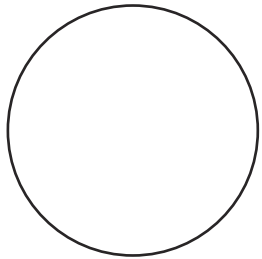
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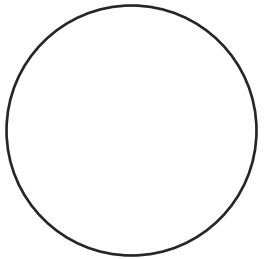
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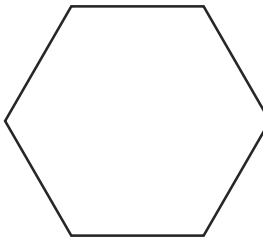
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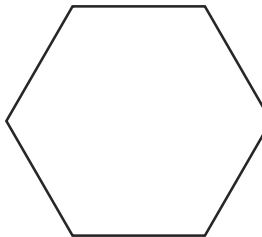
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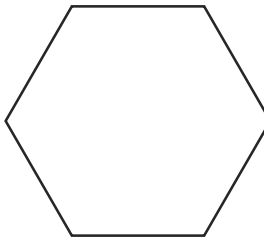
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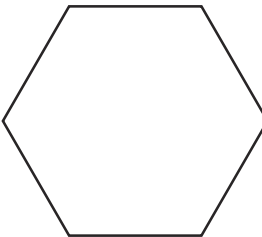
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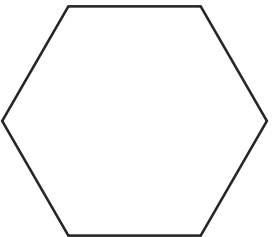
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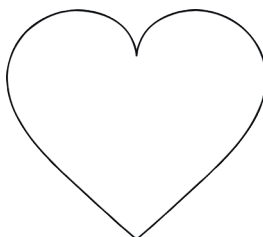
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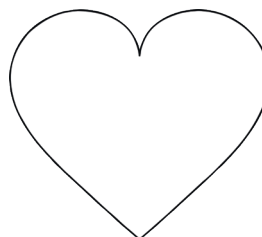
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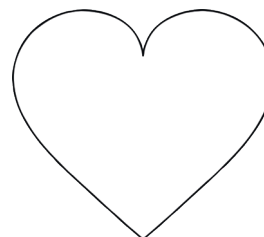
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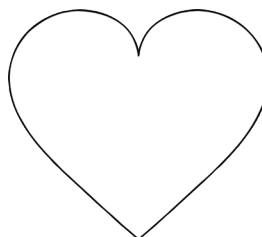
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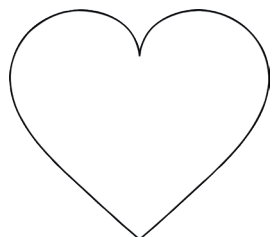
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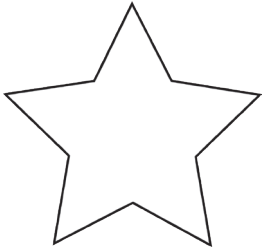
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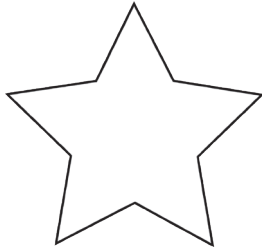
Ordering Numbers to 1 000 000

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

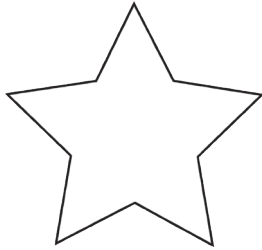
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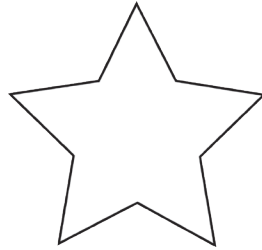
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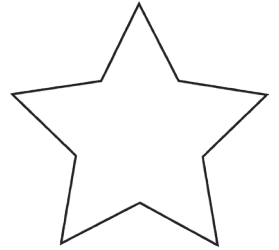
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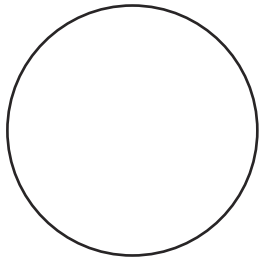
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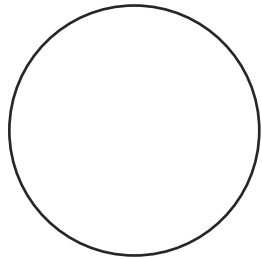
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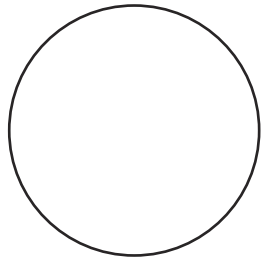
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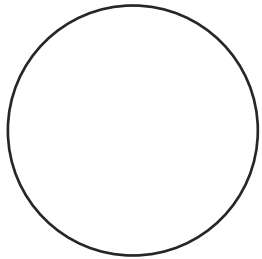
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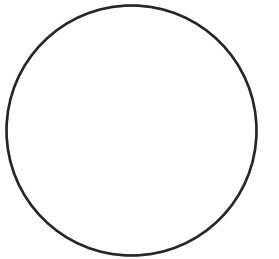
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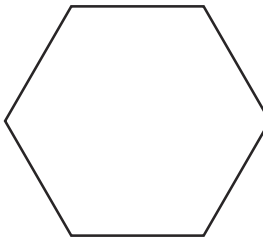
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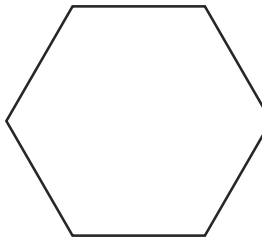
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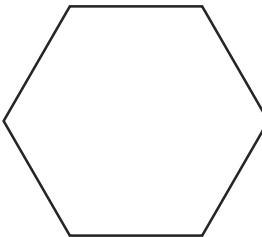
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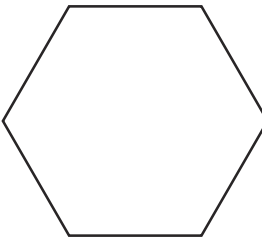
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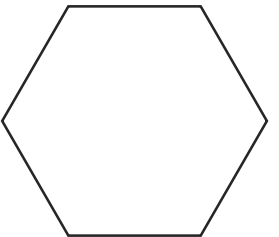
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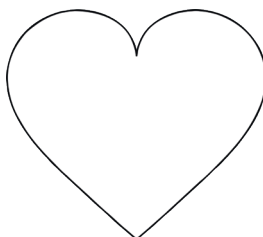
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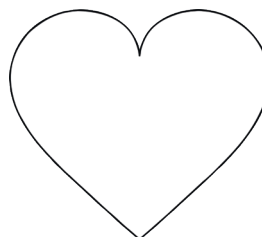
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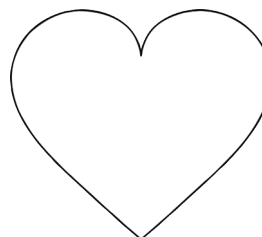
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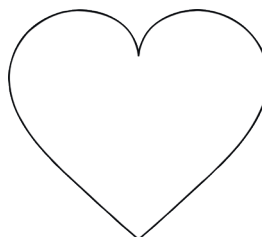
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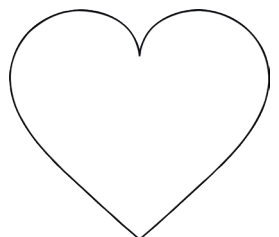
11 110



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
Two hundred and fourteen thousand, three hundred and twelve	
Six hundred and fourteen thousand and fifty-nine	
	345 327
Four hundred thousand, two hundred and twelve	
Eight hundred and eight thousand, eight hundred and eight	
	880 880
	666 000
Six hundred and sixteen thousand, one hundred and sixty-one	
	797 779
Three hundred and thirty seven thousand and thirty seven	
	340 819
Three hundred and thirty-seven thousand and thirty-seven	

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 394 432	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
393 565	393 798	393 411	393 162	393 132	393 082	394 012
393 565	393 166	393 374	393 641	393 445	393 052	FINISH 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	_____	_____	_____
2	478	_____	678	_____	_____
3	4503	_____	_____	4803	_____
4	_____	67	_____	_____	37
5	4904	_____	_____	5204	_____
6	7834	_____	5834	_____	_____
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	24 678 340	_____	_____	_____
16	83 900 000	_____	_____	80 900 000	_____
17	_____	_____	510 000 000	520 000 000	_____

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:

192 902 191 802 191 702 191 602 191 502

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 _____
3. 13 450 12 450 _____ _____ _____
4. 102 342 _____ 100 342 _____ _____
5. 398 700 _____ _____ _____ _____
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 _____ _____ _____ _____
6. 2 620 645 _____ _____ _____ _____

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
3. 1 220 765 1 120 765 _____ _____ _____
4. 2 400 000 _____ _____ 2 100 000 _____
5. 6 256 923 _____ _____ _____ _____
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 _____ _____
3. 12 945 929 11 945 929 _____ _____ _____
4. 37 803 549 _____ _____ _____ 33 803 549
5. 62 900 310 _____ _____ _____ _____
6. 231 500 000 _____ _____ _____ _____

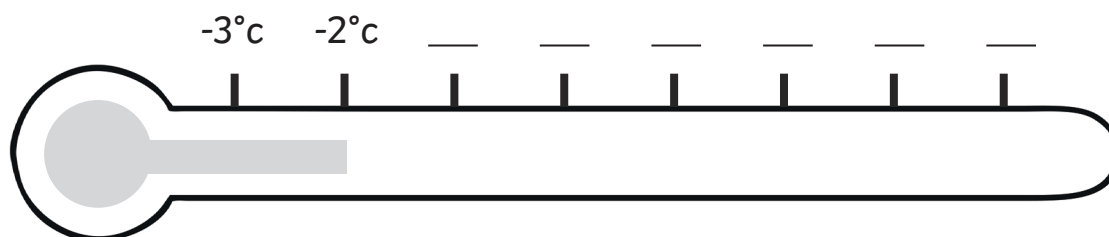
Spot the error in this sequence:

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

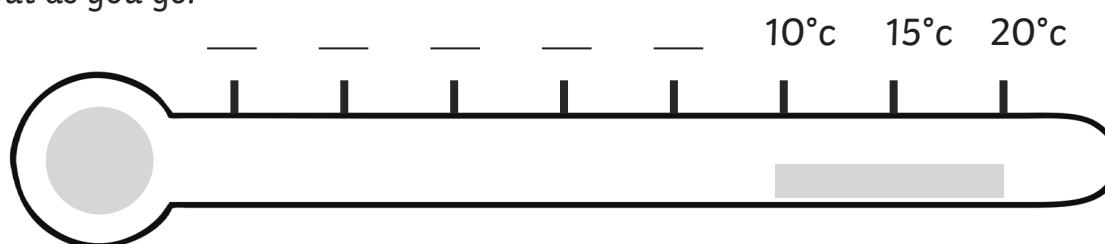
Counting Forwards and Backwards with Positive and Negative Whole Numbers

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

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.

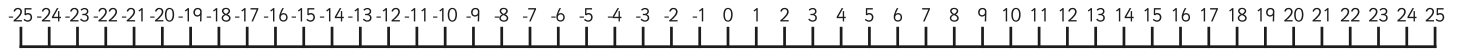
-7°C	-4°C								

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.



- A. 3 5 7
- B. -17°C -12°C -7°C
- C. 4 9 19
- D. -31 17 25
- E. -£6 -£2
- F. 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.

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).

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)

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).

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)

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 →

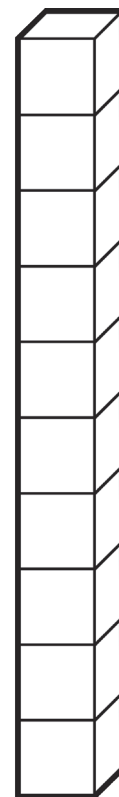
Round the following populations to the nearest 100 000.

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.

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?



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?



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)?

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 has dropped to -7°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 $-\pounds 19$ and then paid $\pounds 30$ 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°C when the Christmas lights are switched on. By 9 a.m. the next day, the temperature has fallen by 11°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 £85 and she had £50 in her account. What is her new balance?

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

Roman Numerals Worksheet

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

1. MD _____

4. CXVI _____

2. MCD _____

5. DCLX _____

3. XXXIV _____

6. CXIII _____

Write these numbers in Roman numerals.

1. 35 _____

4. 283 _____

2. 100 _____

5. 570 _____

3. 99 _____

6. 27 _____

Arrange these numbers in size order.

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

_____, _____, _____, _____, _____, _____, _____, _____

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

_____, _____, _____, _____, _____, _____, _____, _____

Count in hundreds from one hundred.

C, CC, _____, _____, D, _____, _____, _____, _____

Count in five hundreds from five hundred.

D, _____, _____, _____, MMD, _____, _____

Complete these calculations.

1. CD + DC = _____

4. XL + LX = _____

2. VI + IV = _____

5. CM + MC = _____

3. XI + IX = _____

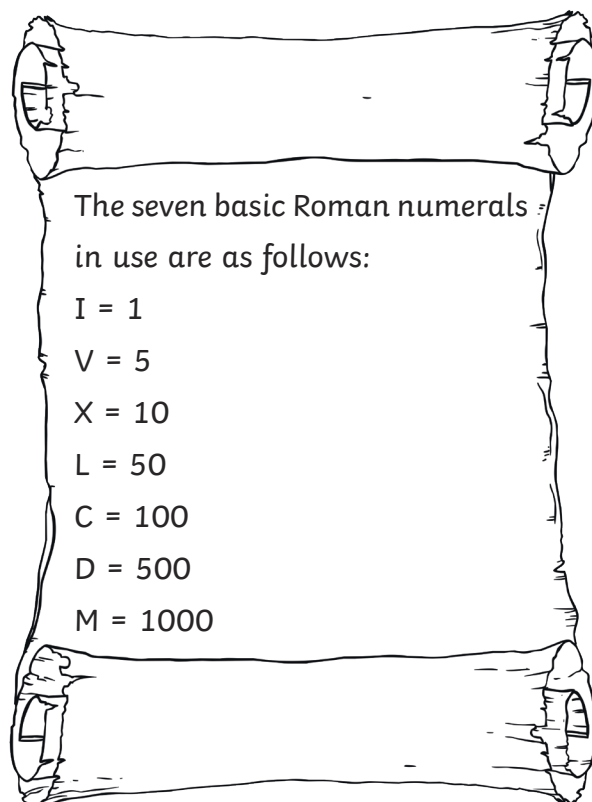
6. CX + XC = _____

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
M	CM	LXX	I	MCMLXXI

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

A.

1000	900	90	9	1990

B.

2000	0	0	5	2005

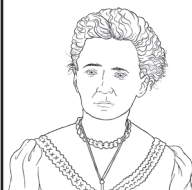
C.

1000	900	50	6	1956

D.

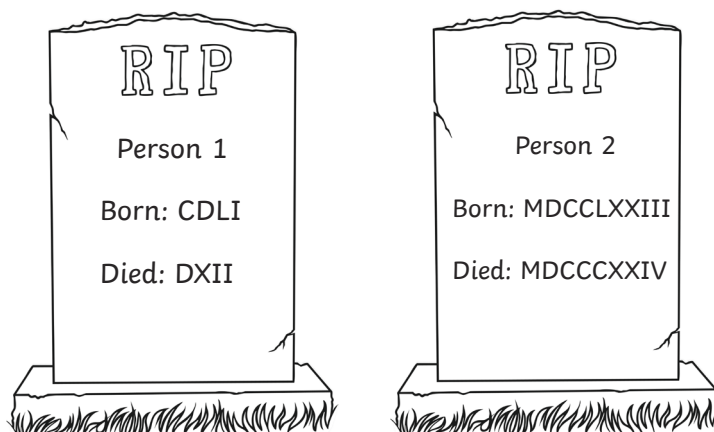
1000	800	80	8	1888

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

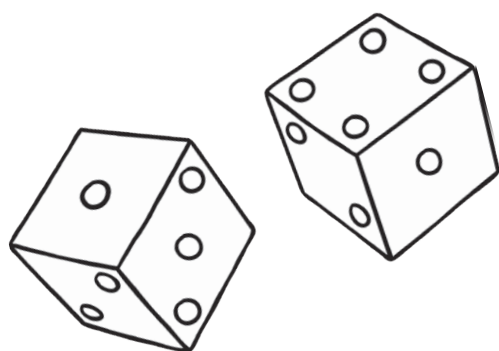
Who	Roman Numeral Year of Birth	Translation
 Marie Curie	MDCCCLXVI I	
 Winston Churchill	MDCCCLXXIV	
 Queen Elizabeth	MCMXXVI	
 John Lennon	MCMXL	
 You!		

Challenge

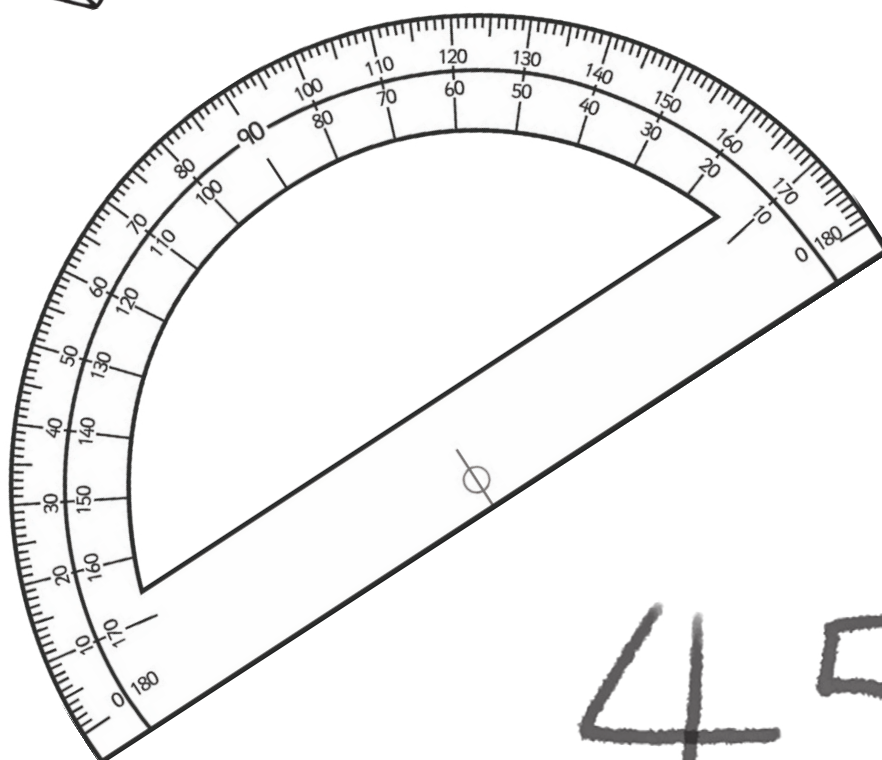
Can you work out how old these people were when they died and who lived the longest life?



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.	• 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, including through 0.	• Counting Forwards and Backwards with Positive and Negative 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 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 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 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



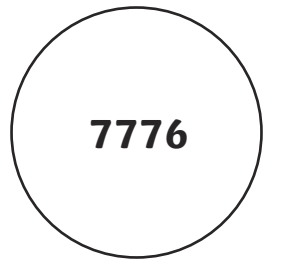
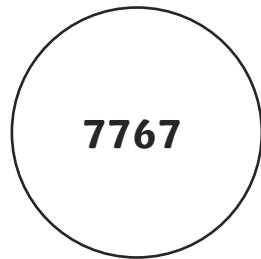
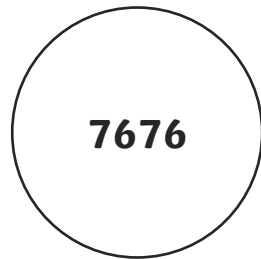
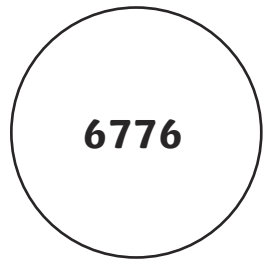
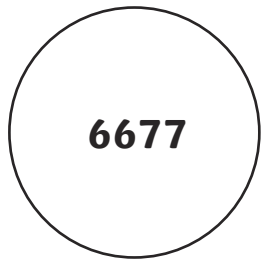
7676

6776

6677

7767

7776



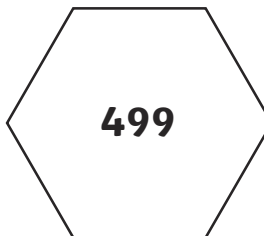
4849

4948

4489

4994

449



1161

6161

1616

6611

6616



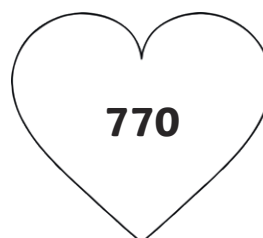
7220

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



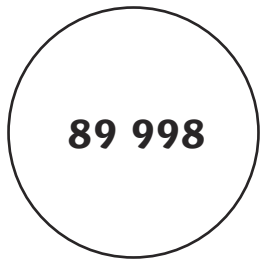
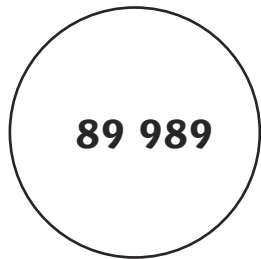
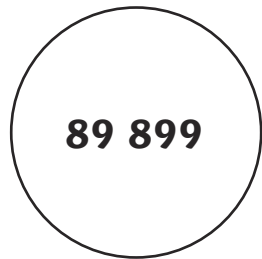
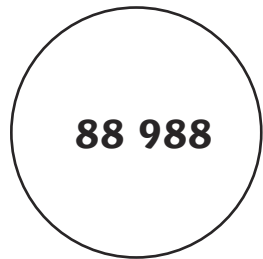
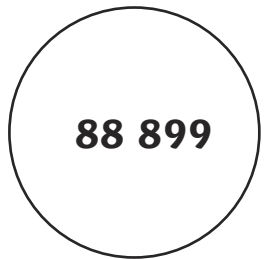
89 998

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



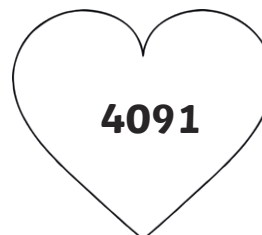
4091

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



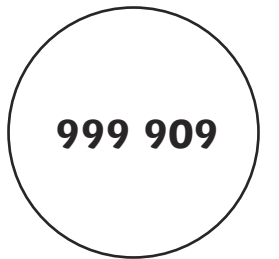
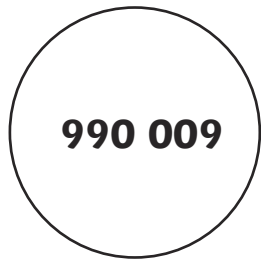
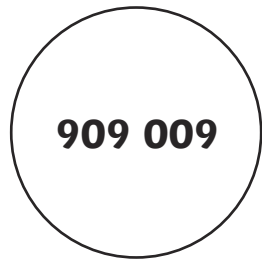
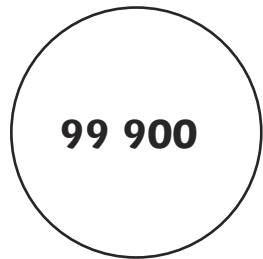
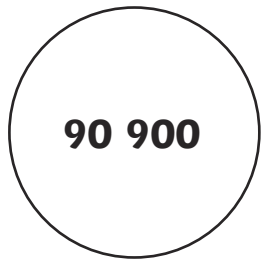
90 900

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



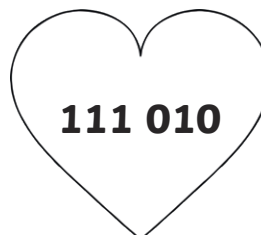
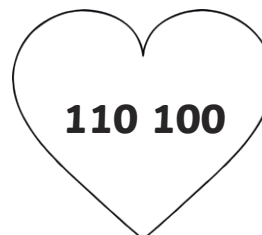
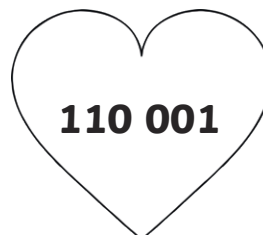
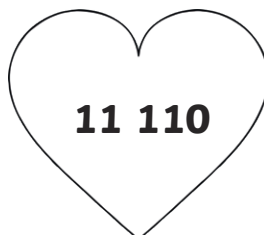
110 001

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	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 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	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 Answers



Write the following words 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 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	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
393 565	393 798	393 411	393 162	393 132	393 082	394 012
393 565	393 166	393 374	393 641	393 445	393 052	FINISH 393 982

Counting on and Back in Powers of 10 Answers

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

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

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)

1. 4523 **3523** **2523** **1523** 523
2. 9000 **8000** **7000** 6000 **5000**
3. 13 450 12 450 **11 450** **10 450** **9 450**
4. 102 342 **101 342** 100 342 **99 342** **98 342**
5. 398 700 **397 700** **396 700** **395 700** **394 700**
6. 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
298 636	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 **23 920** **13 920** **3 920**
2. 71 302 **61 302** **51 302** 41 302 **31 302**
3. 90 000 **80 000** **70 000** **60 000** 50 000
4. 275 400 **265 400** 255 400 **245 400** **234 400**
5. 733 450 **723 450** **713 450** **703 450** **693 450**
6. 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	3 410 000	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 | 590 382 | 490 382 | 390 382 | 290 382 |
| 2. 968 900 | 868 900 | 768 900 | 668 900 | 568 900 |
| 3. 1 220 765 | 1 120 765 | 1 020 765 | 920 765 | 820 765 |
| 4. 2 400 000 | 2 300 000 | 2 200 000 | 2 100 000 | 2 000 000 |
| 5. 6 256 923 | 6 156 923 | 6 056 923 | 5 956 923 | 5 856 923 |
| 6. 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
52 900 000	51 900 000	50 800 000	49 900 000	48 900 000

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

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

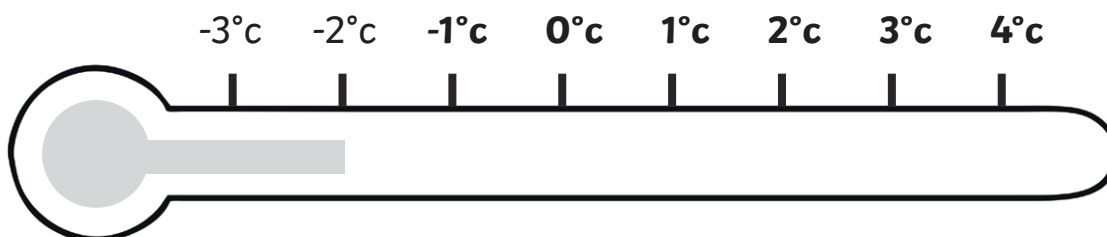
Spot the error in this sequence:

778 100 000	777 100 000	776 100 000	776 900 000	774 100 000
778 100 000	777 100 000	776 100 000	775 100 000	774 100 000

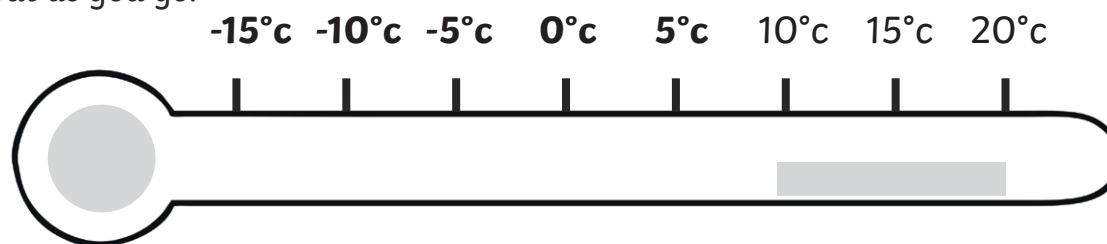
Counting Forwards and Backwards with Positive and Negative Whole Numbers Answers

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.

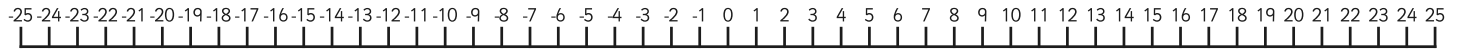
-7°C	-4°C	-1°C	2°C	5°C	8°C	11°C	14°C	17°C	20°C

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	Moscow

B.

Reykjavik	London	Warmest
-10°C	-3°C	London

C.

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

D.

Minsk	St. Petersburg	Warmest
-15°C	-17°C	Minsk

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



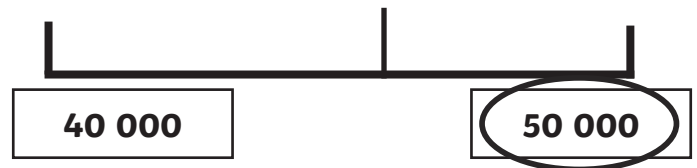
b. 67 509



c. 30 591



d. 45 662



e. 89 014



f. 12 300



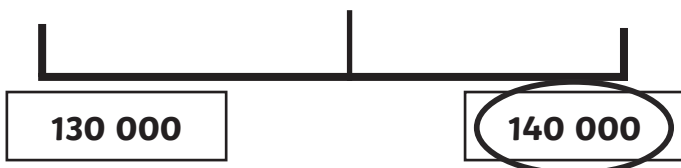
g. 24 677



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 → 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

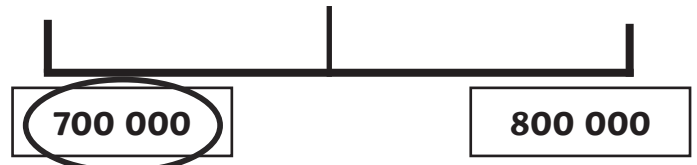
The Nearest 100 000 Answers

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



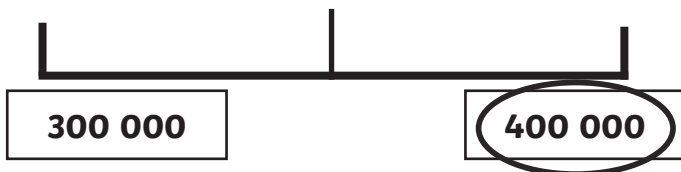
c. 201 489



d. 485 200



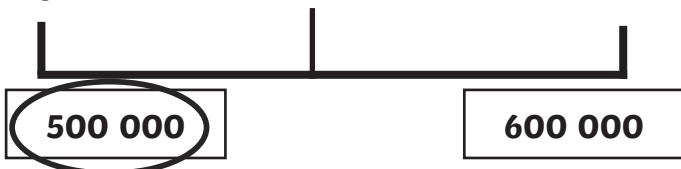
e. 350 891



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	→	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
825 105	→	900 000	999 300	→	1 000 000

Round the following populations to the nearest 100 000.

Places	Population	To the nearest 10 000
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 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

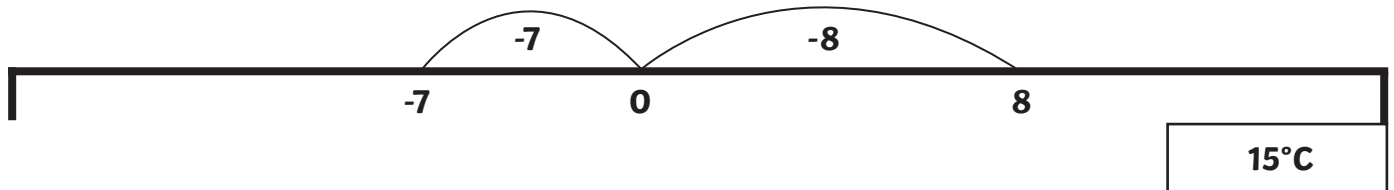
If you round the numbers before calculating the answers, your answers will be more approximate and may not be the same as when you calculate first and then round.

Word Problems Involving Negative Numbers Answers

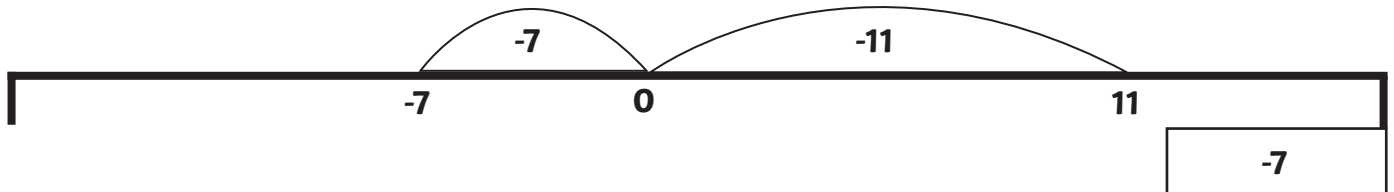
I can solve word problems involving negative numbers

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

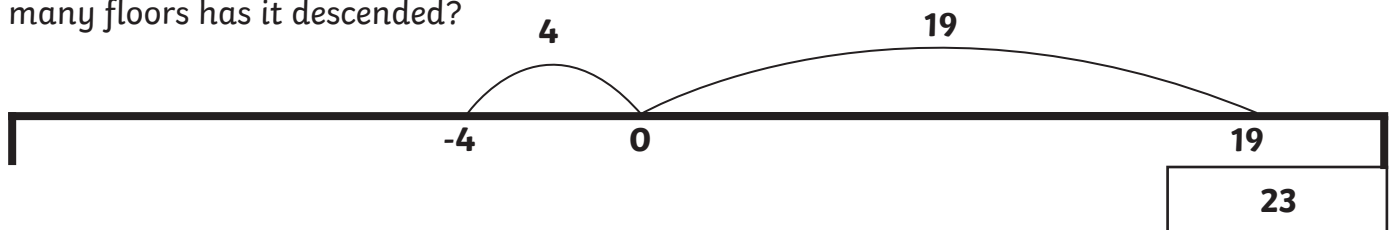
1. The temperature at 6 p.m is 8°C , at 6 a.m. the next morning the temperature has dropped to -7°C . How many degrees has the temperature fallen by?



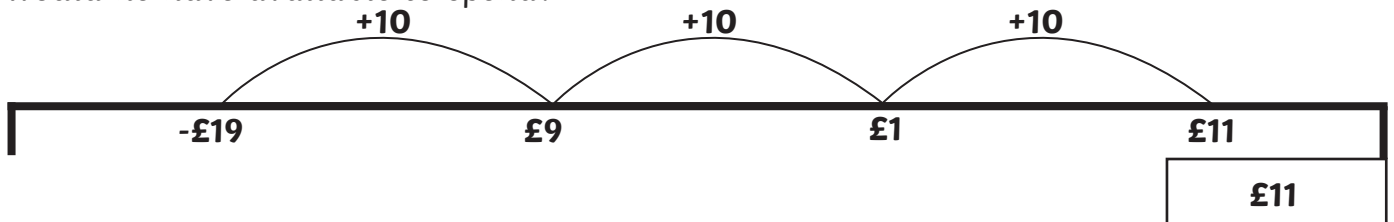
2. If you point to 11 on a number line and then count back 18, which number do you get to?



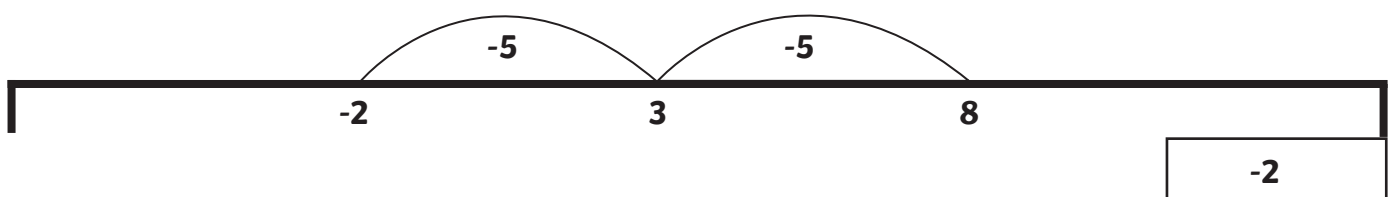
3. The elevator in a skyscraper travels from floor 19 to the underground car park on level -4. How many floors has it descended?



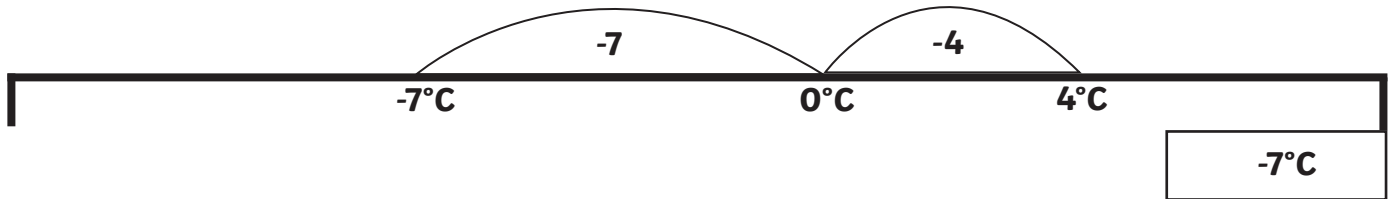
4. An overdraft is a facility which means you can have a negative amount of money in your bank account. If a saver balance of $-\text{£}19$ and then paid $\text{£}30$ into his bank account, how much would he have available to spend?



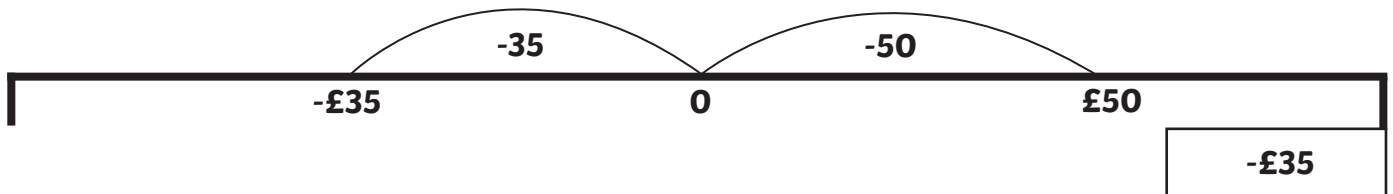
5. In a quiz, a team scores 2 points for each correct answer and loses 5 points for each wrong answer. From the start of a game, a team gets 4 questions in a row correct, but then gets two questions wrong. How many points do they have?



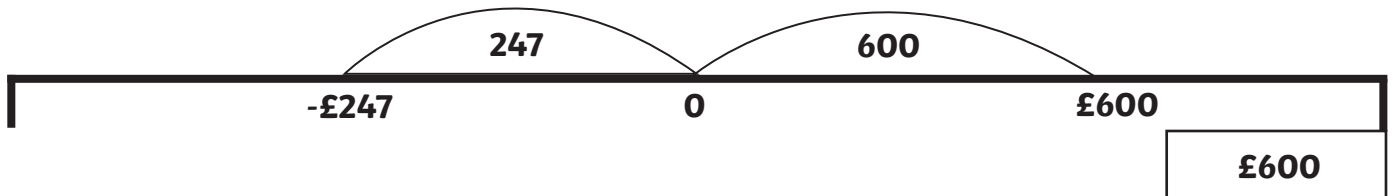
6. The temperature in New York is 4°C when the Christmas lights are switched on. By 9 a.m. the next day, the temperature has fallen by 11°C . What is the new temperature?



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**

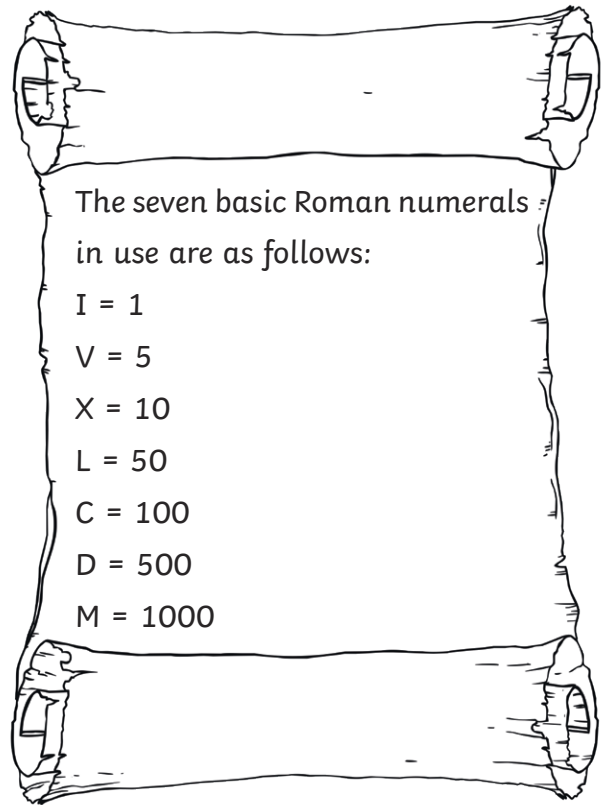
6. CX + XC = **CC**

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	1971
M	CM	LXX	I	MCMLXXI

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

A.

1000	900	90	9	1999
M	CM	XC	IX	MCMXCIX

B.

2000	0	0	5	2005
MM			V	MMV

C.

1000	900	50	6	1956
M	CM	L	VI	MCMLVI

D.	1000	800	80	8	1888
	M	DCCC	LXXX	VIII	MDCCCLXXXVIII

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

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

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 = 451	DXIII = 513	62
2	MDCCCLXXIII = 1773	MDCCCXXIV = 1824	51

Person 1 lived the longest life.