

This maths homework should be spread over the course of a few weeks (up until the end of September). There are various challenge cards based on all of the learning we have completed so far in term 1 - some challenges are quick and simple, others will require some careful thinking. At the end of the document are answer cards for each of the challenges so you can check how you are doing.

It would be a good idea to do one challenge a night and you should finish at around the right point.

Please save challenges 7,8, 12 and 13 until last to make sure we cover the learning in school before you attempt the learning at home.

Number-and-Place-Value-Challenge-Cards

1

Question

Write the value of the underlined digit in each number:

a) 675 801

d) 548 132

b) 344 156

e) 970 130

c) 813 430

f) 100 768

Number-and-Place-Value-Challenge-Cards

2

Question

The numbers in this sequence increase by 10 000 each time. Fill in the missing numbers:

671 766, 681 766, _____, _____,

_____, _____, _____.

Question

Compare these numbers using $<$ or $>$:

a) 989 450 ___ 998 540 e) 300 071 ___ 293 771

b) 876 345 ___ 877 345 f) 669 243 ___ 696 244

c) 213 600 ___ 312 060

d) 559 810 ___ 555 980

Question

Put these numbers in order from smallest to largest:

600 460, 460 300, 346 390, 640 460,
364 390, 346 391, 461 400

Question

783 455 Round this number to...

- a) The nearest 10.
- b) The nearest 100.
- c) The nearest 1000.
- d) The nearest 10 000.

Question

Continue this number sequence:

451 305, 451 315, 451 325, _____, _____,
_____, _____, _____, _____, _____,

Question

What is the value of each set of Roman numerals?

- | | |
|-----------|-------------|
| a) MDXI | d) MMMCIV |
| b) MMCCCL | e) DCXIX |
| c) DCIX | f) MDCCXCIV |

Question

Write each number using Roman numerals:

- | | |
|---------|---------|
| a) 2096 | d) 555 |
| b) 1490 | e) 2963 |
| c) 3995 | f) 998 |

Question

In this number sequence, one hundred is added each time. Fill in the missing numbers:

322 724, 322 824, _____, _____, _____,
_____, _____, _____, _____

Question

Add one thousand to each number:

- | | |
|------------|------------|
| a) 347 601 | d) 569 433 |
| b) 876 100 | e) 299 599 |
| c) 190 388 | f) 689 665 |

Question

Find ten thousand less, and ten thousand more than each number:

a) _____ 898 450 _____

b) _____ 665 433 _____

c) _____ 348 220 _____

d) _____ 879 150 _____

e) _____ 234 540 _____

Question

Continue these number sequences:

a) 24 15 6 _____

b) 28 19 10 1 _____

c) 12 5 -2 _____

Question

Put these Roman numerals in order from smallest to largest:

- | | |
|------------|------------|
| a) MDLXIX | e) MMCMDXI |
| b) MCCXXIV | f) MMD |
| c) MCDVI | g) CCCDXIV |
| d) CXC | |

Question

Write these numbers in words:

- a) 678 433
- b) 399 201
- c) 723 011
- d) 500 009
- e) 104 100

Question

Write these numbers in figures:

- a) One hundred and sixty thousand, three hundred and sixty one
- b) Seven hundred and ninety four thousand, two hundred and fifty five
- c) Five hundred and five thousand, eight hundred and twenty
- d) Nine hundred thousand, four hundred and two
- e) Three hundred and thirty three thousand, and five

Question

Add ten to each number:

- a) 899 991
- b) 345 595
- c) 479 998
- d) 128 795
- e) 606 982
- f) 199 990

Question

What do the numbers in this sequence increase by each time?

456 332, 457 332, 458 332, 459 332

Question

Fill in the missing numbers in this sequence:

311 023, _____, 311 223, _____,

311 423, _____, 311 623, _____

Question

856 732 In this number...

- a) How many tens are there?
- b) How many thousands are there?
- c) How many hundreds of thousands are there?
- d) How many hundreds are there?
- e) How many tens of thousands are there?
- f) How many ones are there?

Question

Subtract ten thousand from each number:

- a) 556 788
- b) 733 201
- c) 883 999
- d) 950 043
- e) 400 123
- f) 305 781

Answers

- a) Seventy thousand
- b) Four thousand
- c) Eight hundred thousand
- d) One hundred
- e) Thirty
- f) One hundred thousand

Answers

671 766, 681 766, 691 766, 701 766,
711 766, 721 766, 731 766

Answers

- a) $989\ 450 < 998\ 540$
- b) $876\ 345 < 877\ 345$
- c) $213\ 600 < 312\ 060$
- d) $559\ 810 > 555\ 980$
- e) $300\ 071 > 293\ 771$
- f) $669\ 243 < 696\ 244$

Answers

346 390, 346 391, 364 390, 460 300,
461 400, 600 460, 640 460

Answers

- a) 783 460
- b) 783 500
- c) 783 000
- d) 780 000

Answers

451 305, 451 315, 451 325, 451 335,
451 345, 451 355, 451 365, 451 375,
451 385

Answers

- a) 1511
- b) 2250
- c) 609
- d) 3104
- e) 619
- f) 1794

Answers

- a) MMXCVI
- b) MCDXC
- c) MMMCMXCV
- d) DLV
- e) MMXCLXIII
- f) CMXCVIII

Answers

322 724, 322 824, 322 924, 323 024,
323 124, 323 224, 323 324, 323 424

Answers

- a) 348 601
- b) 877 100
- c) 191 388
- d) 570 433
- e) 300 599
- f) 690 665

Answers

- a) 888 450 898 450 908 450
- b) 655 433 665 433 665 433
- c) 358 220 348 220 358 220
- d) 889 150 879 150 889 150
- e) 284 540 294 540 304 540

Answers

- a) 24 15 6 -3 -12 -21 -30 -39
- b) 28 19 10 1 -8 -17 -26 -35 -44
- c) 12 5 -2 -9 -16 -23 -30 -37

Answers

- a) CXC = 190
- b) CCCLXIV = 364
- c) MCCXXIV = 1224
- d) MCDVI = 1406
- e) MDLXIX = 1569
- f) MMCMLXI = 2961
- g) MMD = 2500

Answers

- a) Six hundred and seventy eight thousand, four hundred and thirty three
- b) Three hundred and ninety nine thousand, two hundred and one
- c) Seven hundred and twenty three thousand and eleven
- d) Five hundred thousand and nine
- e) One hundred and four thousand one hundred

Answers

- a) 160 361
- b) 794 255
- c) 505 820
- d) 900 402
- e) 333 005

Answers

- a) 900 001
- b) 345 605
- c) 480 008
- d) 128 805
- e) 606 992
- f) 200 000

Answers

The numbers increase by 1000 each time.

Answers

311 023, 311 123, 311 223, 311 323,
311 423, 311 523, 311 623, 311 723,

Answers

- a) 3
- b) 6
- c) 8
- d) 7
- e) 5
- f) 2

Answers

- a) 546 788
- b) 723 201
- c) 873 999
- d) 940 043
- e) 390 123
- f) 295 781