Number and Place Value

Warm-Up

Write the following numbers in digits:

Thirty-four thousand, nine hundred and seventy-four

34 974

Five hundred and twenty-nine thousand, six hundred and twenty-one

529 621

Nine hundred and thirty-six thousand, two hundred and two

936 202

Six hundred and two thousand and ninety

602 090

Show answers

Can you create some problems like this for a partner?

Write the following numbers in words:

236 844

Two hundred and thirty-six thousand, eight hundred and forty-four

542 987

Five hundred and forty-two thousand, nine hundred and eighty-seven

878 003

Eight hundred and seventy-eight thousand and three

301 999

Three hundred and one thousand, nine hundred and ninety-nine

Show answers

Can you create some problems like this for a partner?

Order the numbers from smallest to largest.

smallest					largest

| 432 717 | 623 198 | 411 861 | 1 000 000 | 569 011 | 765 134 |

Show answers

Order the numbers from smallest to largest.

smallest					largest

989 999	874 562	988 887	888 711	752 100	1 000 000

Show answers

Order the numbers from smallest to largest.

smallest					largest

745 677	242 199	242 189	789 004	567 891	789 104

Show answers

Hassan starts with the number 36. He counts forwards and backwards in 10s. Which of these numbers could he count?

246

392   2045

-14

1342

296

-22   336

116

726

-4   492

Show answers

Count forwards in hundreds from these numbers for 5 more numbers:

347   447, 547, 647, 747, 847

2421   2521, 2621, 2721, 2821, 2921

14 542   14 642, 14 742, 14 842, 14 942, 15 042

324 655   324 755, 324 855, 324 955, 325 055, 325 155

Show answers

Count backwards in hundreds from these numbers for 5 more numbers:

1347   1247, 1147, 1047, 947, 847

2421   2321, 2221, 2121, 2021, 1921

14 442   14 342, 14 242, 14 142, 14 042, 13 942

324 455   324 355, 324 255, 324 155, 324 055, 323 955

Show answers

Here is a 6-digit number:

187 643

Write down numbers that are:

1. One thousand more   188 643

2. Ten less   187 633

3. One hundred more   187 743

4. One hundred thousand more   287 643

5. Thirty thousand more   217 643

Show answers

Put these temperatures in the correct order, starting with the coldest first.

1. 1⁰C, -4⁰C, -6⁰C, 2⁰C, -2⁰C, 4⁰C

-6⁰C, -4⁰C, -2⁰C, 1⁰C, 2⁰C, 4⁰C

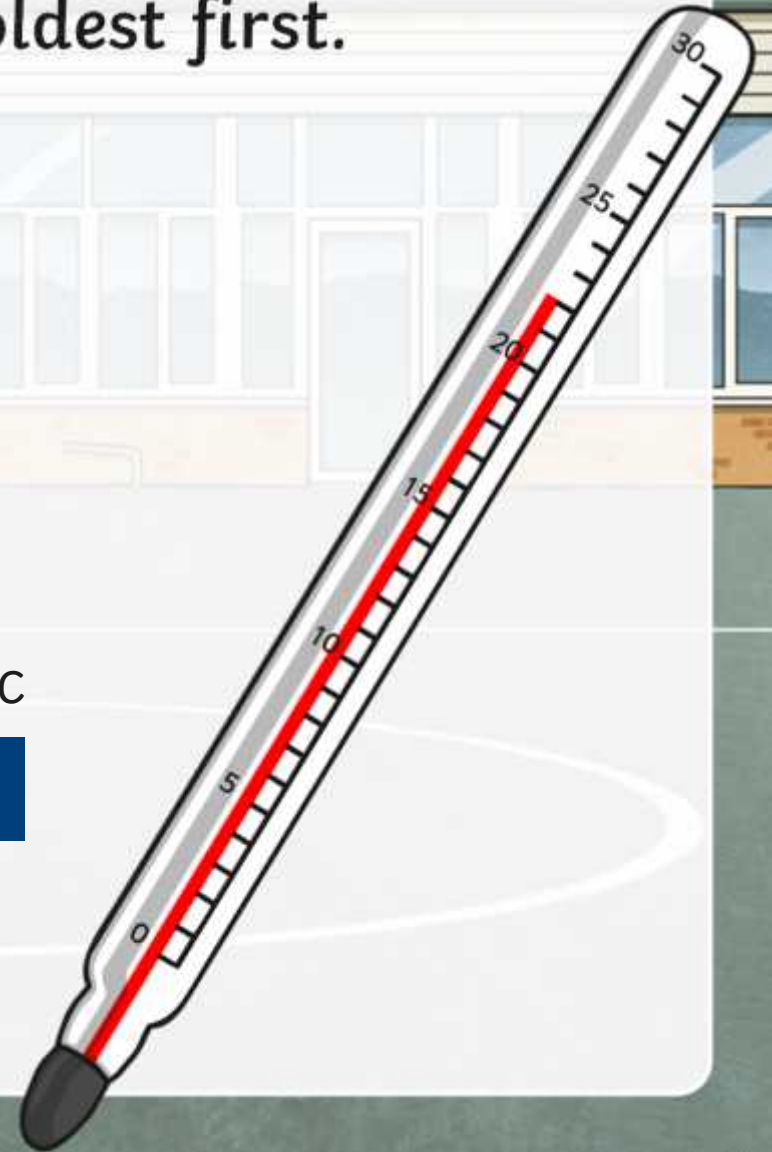2. -5⁰C, -7⁰C, 1⁰C, 0⁰C, -3⁰C, -8⁰C

-8⁰C, -7⁰C, -5⁰C, -3⁰C, 0⁰C, 1⁰C

3. 18⁰C, 16⁰C, -23⁰C, -26⁰C, -12⁰C, 13⁰C, 20⁰C

-26⁰C, -23⁰C, -12⁰C, 13⁰C, 16⁰C, 18⁰C, 20⁰C

Show answers

The temperature is -4ºC. How many degrees must it rise by to get to 5ºC?

9 degrees

The temperature rises by 11 degrees. It is now 2ºC. What as the temperature to start with?   -9ºC

The temperature in Moscow is -4ºC. Over night it falls by 16 degrees. What is the temperature now?   -20ºC

Show answers

Day	Mon	Tues	Wed	Thur	Fri	Sat	Sun
Temperature	4ºC	-2ºC	-3ºC	6ºC	2ºC	-3ºC	-5ºC

1. Which day was the coldest? Sunday

2. What is the difference in degrees between the warmest and coldest days?

    11 degrees

3. How many degrees colder was Tuesday than Monday? 6 degrees

4. Put the temperatures in order from coldest to warmest.

    -5ºC, -3ºC, -3ºC, -2ºC, 2ºC, 4ºC, 6ºC

Show answers

Fill in the missing numbers from these sequences:

-9°C, -8.5^{o}C, -8°C, ☐, -7°C, ☐, ☐, -5.5^{o}C

-2.5^{o}C, -3°C, -3.5^{o}C, ☐, ☐, -5°C, ☐

Show answers

True or False?

Seven less than -8ºC is -15ºC.

-6ºC + 11ºC = -17ºC

If it is -5ºC outside and 10ºC inside, there is a difference of 15 degrees.

It is -7ºC and the temperature decreases by 3 degrees. It is now -4ºC.

Show answers

A man travels 24 524 miles in his car in a year.

What is this rounded to the nearest 100 miles?

What is this rounded to the nearest ten thousand miles?
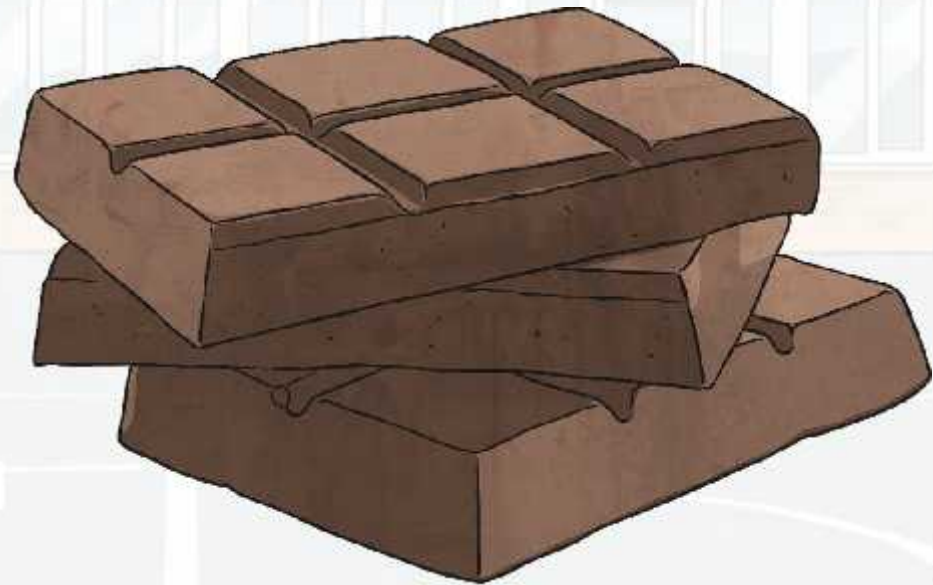
24 500 miles

20 000 miles

The next year he drives an extra 2654 miles. What is this rounded to the nearest ten thousand?

30 000 miles

Show answers

A chocolate company sells 447 891 milk chocolate bars and 287 342 dark chocolate bars in a year. How many bars have they sold altogether to the nearest 10 000 and 100 000?

740 000 chocolate bars

700 000 chocolate bars

Show answers

Can you write a similar problem for a partner?

Chen drives 472.87 miles from her home in Scotland, to Portsmouth to visit her sister. How far is this to the nearest tenth of a mile? How many miles is this to the nearest whole mile?

472.9 miles   473 miles

Show answers

Can you write a similar problem for a partner?

Michelle goes on holiday in her camper van. On the first day, she manages to travel 73.93 miles. On the second day, she travels 89.25 miles. How many miles has she travelled altogether to the nearest mile? To the nearest tenth of a mile?

163 miles   163.2 miles

Show answers

1. Write this number in words: 623 956

2. Complete these sentences:

It is [   ] less than 630 000.

It is [   ] more than 620 000.

It is [   ] less than 1 000 000.

The value of the 9 is [   ].

The digit in the ten thousands place is [   ].

Show answers

Write these Roman numerals in digits.

XVI	16	**MLVI**	1056
LXXVI	76	**DVII**	507
CCLXVI	266	**MCMXVII**	1917

Show answers

Can you create some problems like this for a partner?

Write these digits as Roman numerals.

6	VI	624	DCXXIV
29	XXIX	450	CDL
375	CCCLXXV	230	CCXXX

Show answers

Can you create some problems like this for a partner?

Put these Roman numerals in order from smallest to largest

smallest						largest

XXXV	XXX	XL	LX	LV	XLV	L

Show answers

Complete these calculations. Write your answers in Roman numerals and in digits.

1. LX + LV =   CXV   60 + 55 = 115

2. XLV + XL =   LXXXV   45 + 40 = 85
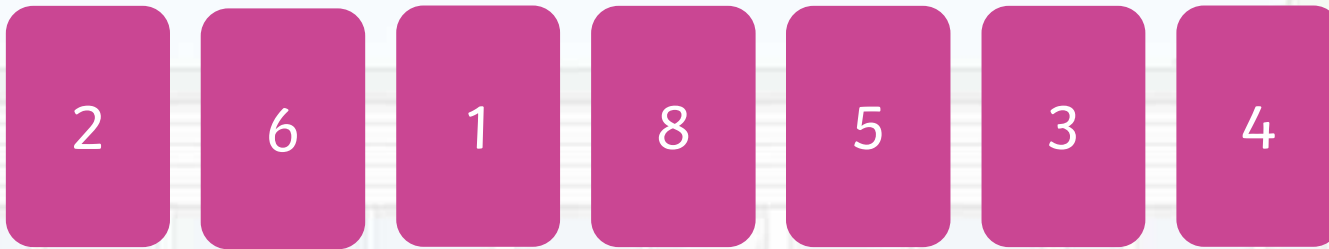
3. XL + LX =   C   40 + 60 = 100

4. XC + CX =   CC   90 + 110 = 200

5. IV + VI =   X   4 + 6 = 10

6. MC + CM =   MM   1100 + 900 = 2000

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| 2 | 6 | 1 | 8 | 5 | 3 | 4 |

Use 5 of the above digits to make a number larger than fifty thousand.
Any 5-digit number larger than 50 000.

Make the largest number possible using all the above digits.
8 654 321

Make the smallest number possible using all the above digits.
1 234 568

Make a 4-digit number, where the tens digit is double the thousands digit.
2 in the tens and 1 in the thousands, 4 in the tens and 2 in the thousands,
6 in the tens and 3 in the thousands, 8 in the tens and 4 in the thousands.

Show answers