

# Maths Workout

## Year 6 – Place Value

**Start with these warm ups each day to get your brain working.**

**Each slide has a day on it and the answers are on the next page.**

**Make sure you do the full lesson after.**

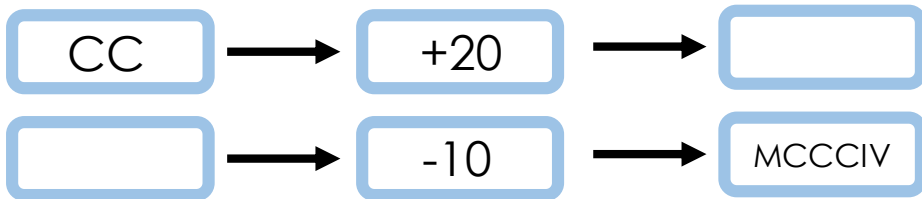
One

Add 100 to each number

**5,060    3,409    986**

Two

Complete the function machines



Three

Complete the missing number

$$45,009 = 40,000 + \underline{\quad\quad} + 9$$
$$98,300 = \underline{\quad\quad} + 300$$

Four

Round each number to the nearest 1000.

**569    1,785    5,094**

Five

Jane says...



**6 9 2 0 4**

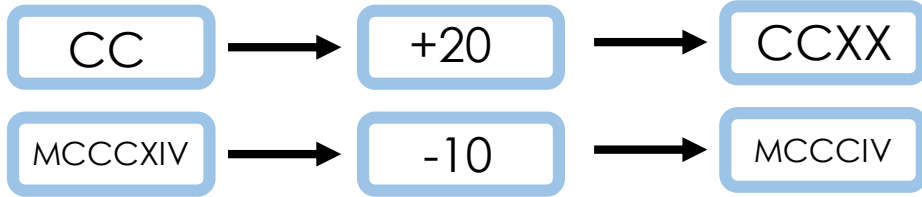
**“The largest number I can make is 96,042.”**

Is she correct?  
Explain your reasoning!

One

5,160    3,509    1086

Two



Three

$$45,009 = 40,000 + \underline{5,000} + 9$$

$$98,300 = \underline{98,000} + 300$$

Four

1,000    2,000    5,000

Five

- D** – Jane is incorrect.
- A** – 96,042 is not the largest number she can make.
- B** – The largest number Jane could make is 96,420. As 0 is the lowest digit value, it should be placed in the least significant place value column.

One

Round each number to the nearest 10,000.

**45,569    11,325    51,008**

Two

Draw a part-whole model for these numbers:

**894    1,205    31,101**

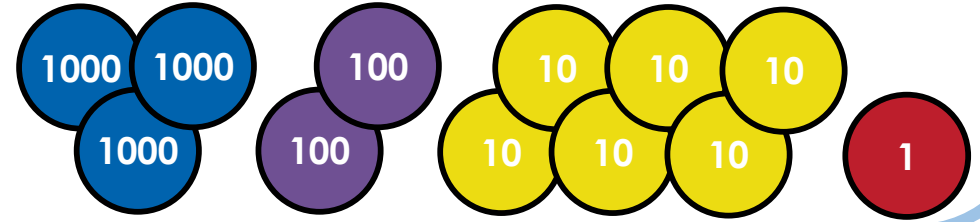
Three

Order these numbers from largest to smallest

4,542    5,452    4,424    5,245    2,524

Four

What number is represented?



Five

Jerry says...



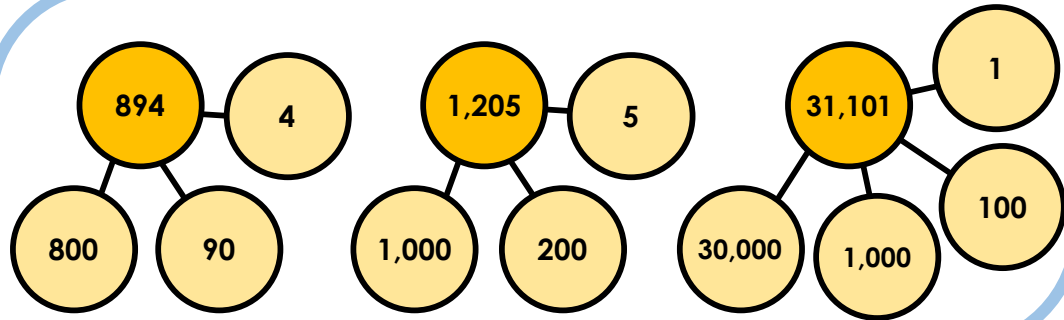
**“5,054 rounded to the nearest thousand is 6,054.”**

Is he correct?  
Explain your reasoning!

One

50,000 10,000 50,000

Two



Three

5,452, 5,245, 4,542, 4,424, 2,524

Four

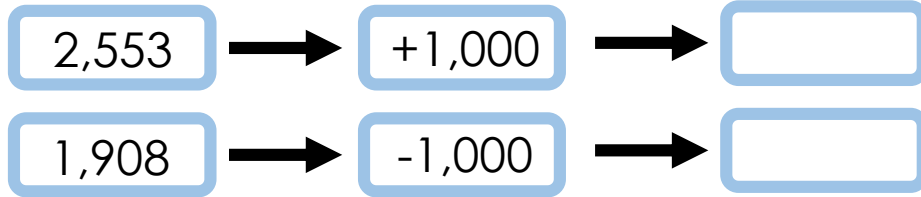
3,261

Five

- D** – Jerry is incorrect.
- A** – 5,054 rounded to the nearest 1,000 is not 6,054
- B** – 5,054 rounded to the nearest 1,000 is 5,000. Jerry has added 1,000 instead.

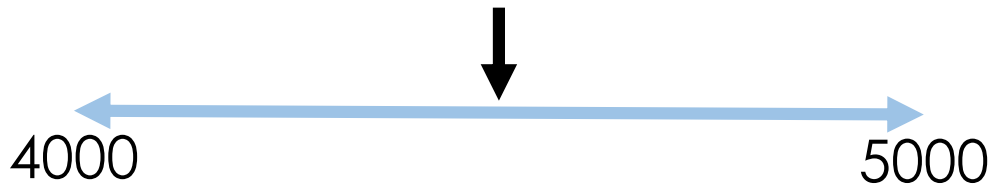
One

Complete the function machines



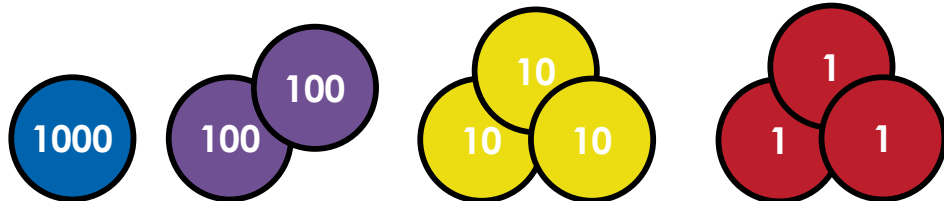
Two

Which number is represented?



Three

Add four counters to the tens column. What is the new number?



Four

Add the missing numbers

-4, \_\_\_\_, 16, 26, \_\_\_\_, \_\_\_\_, 56

Five

Jerry thinks he can order these numbers by only looking at the first two digits in the numbers.



6,324

6,842

6,545

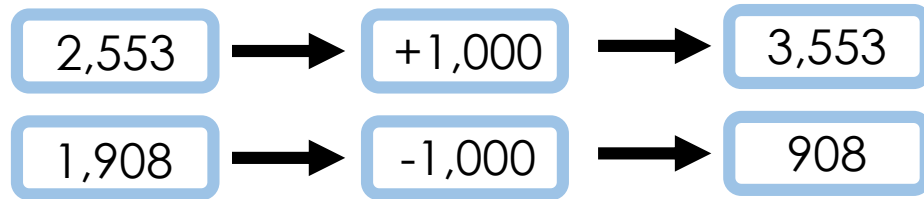
6,121

6,423

Is he correct?

Explain your reasoning!

One



Two

4,500

Three

1,273

Four

-4, 6, 16, 26, 36, 46, 56

Five

**D** – Marlon is correct.

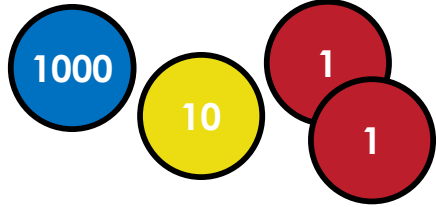
**A** – He can order the numbers by looking at their first two digits.

**B** – Although the numbers have the same number of 1,000s, the 100s digits are different so Marlon will have to use the 100s digit to order them.



One

Place <, > or = in the box



1,102

Four

Write these numbers in words

452    5,680    14,507

Two

Solve the calculations

$$\text{CCII} + \text{LIV} =$$
$$\text{CXXVIII} - \text{XXXI} =$$

Three

Find five numbers that round to  
4,000 when rounding to the nearest  
100

Five

In September, the temperature was  
- 5°C. In March, it was 14°C colder.



**“In March, it was 19°C.”**

Did Jane work out the temperature  
correctly?



One

<

Two

$$\text{CCII} + \text{LIV} = \text{CCLVI}$$
$$\text{CXXVIII} - \text{XXXI} = \text{XCVII}$$

Three

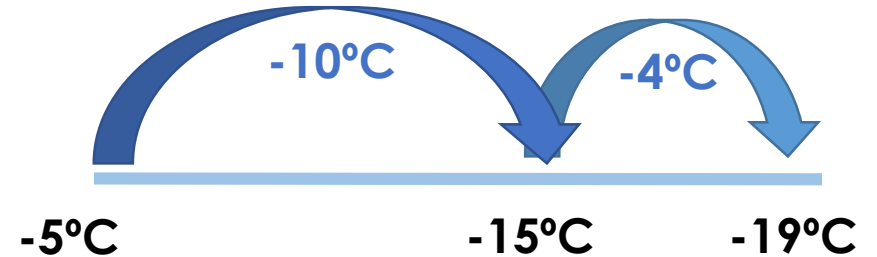
Numbers between 3,950 and 4,049

Four

four hundred and fifty-two  
five thousand, six hundred and eighty  
fourteen thousand, five hundred and seven

Five

- D** – Jane is incorrect.
- A** – The temperature in March was not 19°C.
- B** – The temperature was -19°C.



One

Write the value of the 5 in each number

4,253    12,345    56,345

Two

Partition the following numbers

456    76,543    3,403

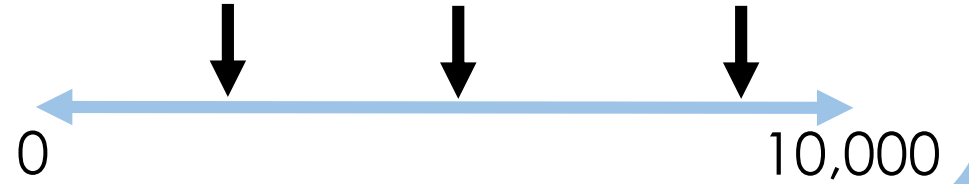
Three

Add the missing numbers

3,045, \_\_\_\_\_, 2,845, 2,745, \_\_\_\_\_,

Four

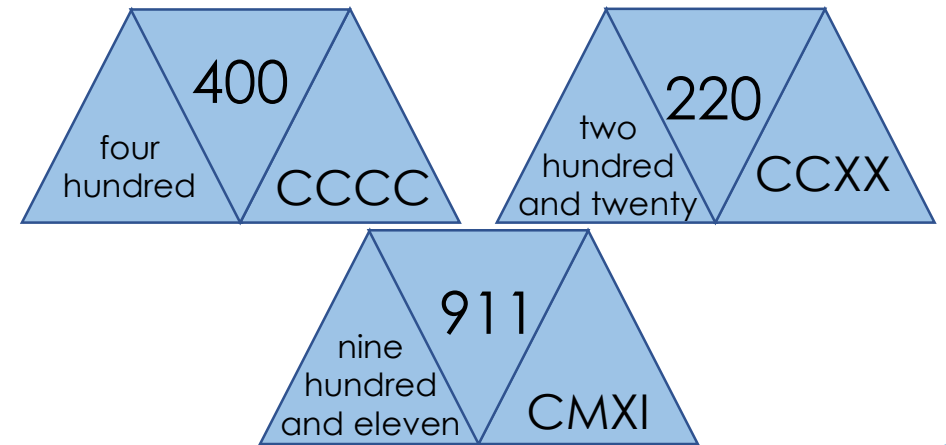
Estimate the values of the arrows



Five

### True or False?

Each diagram shows the correct number represented in numbers, words and Roman numerals.



One

50    5    50,000 and 5

Two

Answers could include ...

$$456 = 400 + 50 + 6$$

$$76,543 = 70,000 + 6,000 + 500 + 40 + 3$$

$$3,403 = 3,000 + 400 + 3$$

Three

3,045, 2,945, 2,845, 2,745, 2,645

Four

Approximately 2,000, 5,000, 9,000

Five

**D** – False.

**A** – The top left is incorrect.

**B** – The Roman number should be CD not CCCC; you can not repeat a numeral more than 3 times.

