

366 DAYS IN A LEAP YEAR

TASK 1

Facts about 366.

- a) It is 'three hundred and sixty-six' in words.
- b) It is an even number.
- c) It has 8 factors which are 1, 2, 3, 6, 61, 122, 183 and 366.
- d) 366 seconds is equal to 6 minutes and 6 seconds.

Write some more facts about this number.

Use the correct mathematical vocabulary.

TASK 2

Which of these sequences will contain the number 366?

Give a reason for your answer.

- a) 2, 4, 6, 8, 10 ...
- b) 1, 3, 5, 7, 9 ...
- c) 420, 414, 408, 402, 395 ...
- d) 191, 216, 241, 266, 291 ...

Create sequences both in ascending and descending order in which the number '366' displays.

Explain/describe the sequence in mathematical terms.

TASK 3

Go back to the sequences you created.

a) Choose an ascending sequence.

What is the first positive integer/term of that sequence?

b) Choose a descending sequence.

What is the last positive integer/term of that sequence?

E.g. ...360, 362, 364, 366, 368, 370...

pattern/rule is '+ 2'.

the first term of this sequence is 2

... 416, 366, 316, 266, 216...

pattern/rule is '-50'.

the last term of this sequence is 16

Note:

Number sequences are sets of numbers that follow a pattern or a rule.

Each number in a sequence is called a term.