Year 5 Learning at Home Week 2, Session 3
Maths
In today's work we are going to focus on multiples and factors of numbers, as well as prime numbers. This is something we learnt about in the Autumn term - how much can you remember?

What is a multiple?
A multiple is a number that appears in a times table.
For example, some of the multiples of 4 are: $8,12,16,20$, 24, 100 or 372
What is a factor?
A factor is a number that when multipled with another factor will give a multiple.

For example, 3 is a factor of 12 because $3 \times 4=12$ What is a prime number?
A prime number is a number that can only be divided by itself ox one (it only has two factors).

For example, 13 is a prime number as it can only be divided into one group of 13 or 13 groups of 1 .

7a. Rachel is thinking of a number.


What could her number be?
Is there only one answer?

7a) 108 or 126

8a. Fill in the table below with two possible multiples for each number.

| Number | Multiples |  |
| :---: | :---: | :---: |
| 7 |  |  |
| 9 |  |  |
| 12 |  |  |
| 6 |  |  |

8a. Various answers, for example: 28 and 63 (7); 81 and 99 (9); 24 and 48 (12); 42 and 54 (6)

7b. Monty is thinking of a number.


What could his number be?

Is there only one answer?

7b) 154

8b. Fill in the table below with two possible multiples for each number.

| Number | Multiples |  |
| :---: | :---: | :---: |
| 8 |  |  |
| 11 |  |  |
| 4 |  |  |
| 9 |  |  |

8b. Various answers, for example: 16 and 32 (8); 77 and 110 (11); 32 and 40 (4); 27 and 72 (9)

2. What is the lowest common multiple for each set of numbers?

12 and 2060
6 and 1442
11 and 15165
3. Look at the numbers in the circles. Write the nearest prime number lower than the number in the left-hand boxes and the nearest prime number higher in the right-hand boxes.


This is a link to the factors and multiples game we had a go at in class. What is the longest string of numbers you can make? The record for a primary school pupil is 65 numbers!
https://nrich.maths.oxg/factorsandmultiples

## Diving Deeper

Have a go at the puzzle below. You need to organise these numbers so that one number fits in each square.

|  | Factors of 60 | Numbers less than $\mathbf{1 3}$ | Numbers more than 12 | Multiples of 5 |
| :---: | :---: | :---: | :---: | :---: |
| Prime <br> Numbers | $3$ | 7 | $13$ | 5 |
| Odd Numbers |  | 17 |  | 45 |
| Square Numbers | $4$ | $9$ | 64 | $25$ |
| Multiples of 3 | 60 | $12$ | $18$ | $30$ |
| Even Numbers | $20$ | $8$ | $16$ |  |

## English

Can you sort these adverbial phrases into their different types? Here are the categories:
Manner (how); place (where); time (when); duration (how long); direction (which way); reason/cause (why)

| under the mattress | for seven years | with a flick of the wrist |
| :---: | :---: | :---: |
| on Wednesday | because you didn't finish <br> your homework | all along the road |
| eight weeks ago | in France | since it's nearly home time |
| long, long ago | round the corner |  |
| barking madly | behind the teacher's chair | exhaustedly |
| while we watched TV | as it's my birthday | to the right |


| Manner (how) | Place (where) | Time (when) | Duration Chow long) | Direction (which way) | Reason/ cause (why) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| With a flick of the wrist | Under the mattress | On Wednesday | For seven years | All along the road | Because you didn't finish your homework |
| Barking madly | In Fxance | Eight weeks ago |  | To the right | Since it's nearly home time |
| exhawstedly | Round the corner | Long, long ago |  |  | $A s i t$ s my birthday |
|  | Behind the teacher's chair | While we watched TV |  |  |  |
|  |  | During the match |  |  |  |

7. Tick the sentence which shows a correct fronted adverbial underlined.
A. Much to everyone's surprise Theo delivered an inspiring speech on Wednesday, at the annual business conference.
C. Much to everyones surprise, Theo delivered an inspiring speech on Wednesday, at the annual business conference.
B. Much to everyone's surprise, Theo delivered an inspiring speech on Wednesday at the annual business conference.
D. Much to everyone's surprise, Theo delivered an inspiring speech on Wednesday, at the annual business conference.
8. True or false? Commas have been used correctly to show fronted adverbials in the sentences below.
A. Whilst he was rummaging, in the garden shed Dean discovered an unused hand-saw.
B. Even though half-asleep, Theron could still hear his dad's monotonous snoring coming from next door.
9. Conrad says,
A. after I had picked my mum up from the hospital, my car broke down on a busy main road.
B. Tomorrow morning,
 I will take photographs of all the children wearing their shiny medals from Sports Day.
C. According to tradition, $\qquad$ pyramids were made from limestone. Do you agree? Explain your answer.

## 7. B ( C is incorrect because everyone's is missing an apostrophe)

8. A) False, the comma should be placed after the noun shed; B) True.
9. Conrad is correct. Various answers, for example:
A) (time) Last week; (place) Next to the church
B) (time) during the whole school assembly; (place) from the back of the hall
C) (time) during the pharaoh's reign; (place) in Egypt
