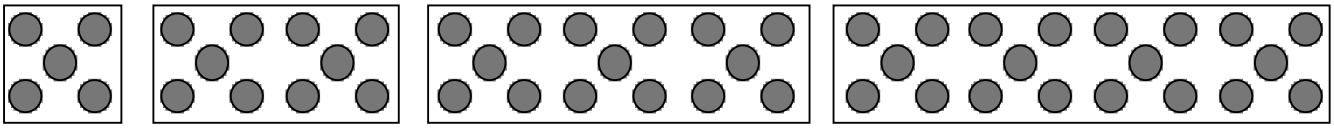
Mathematics Assessment (CfE) - Level 2

(MTH 2 - 05a)

Having explored the patterns and relationships in multiplication and division, I can investigate and identify the multiples and factors of numbers.

1. 

(i) (ii) (iii) (iv)

Look at the above pattern of dots.

a Draw the next pattern.

b How many dots are there in pattern (i), pattern (ii), pattern (iii) and pattern (iv) ?

c How many dots will there be in pattern 10 ?

2. Write down the next **two** numbers in each sequence below :-

a 8, 12, 16, 20, ..., ...,

b 11, 22, 33, 44, ..., ...,

c 256, 128, 64, 32, ..., ...,

d 243, 81, 27, 9, ..., ...,

e 2, 40, 800, 16 000, ..., ...,

f 1 000 000, 100 000, 10 000, ..., ...

3. Fill in the missing numbers in each sequence below :-

a 6, 12, 18, ..., 30, ..., 42,

b 19, 38, 57, ..., 95, ...

c 144, 132, 120, ..., 96, 84, ...

d 768, ..., 192, ..., 48, 24, 12, ...,

4. Write down the first six **multiples** of :-

a 2 **b** 5 **c** 10 **d** 150.

5. For each number given, say which "**multiple**" envelope it would be able to be put into.
(*A number can be placed in more than one envelope*).

The numbers are :- **a** 6 **b** 30 **c** 42 **d** 90.

multiples of 2	multiples of 3	multiples of 4	multiples of 5	multiples of 6	multiples of 7	multiples of 8	multiples of 9

6. Write down all the **factors** of :-

a 8 **b** 29 **c** 100 **d** 36.

7. By finding the factors of each of these numbers, say what all the numbers have in common.

11 29 7 17 13 3 23 2