**MULTIPLYING BY 5**

***Age category: 9-12 years***

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***Competences:***

* + - * ***The students will learn to multiply by 5***
* ***The students will know how to multiply by 5 in different contexts: real or abstract***
* ***The students will gain self-confidence in their abilities for arithmetic***

***Competences according to European curriculum:***

[***http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=LEGISSUM%3Ac11090***](http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=LEGISSUM%3Ac11090)

***Formative assessment:***

* ***Making equal groups of 5 elements***
* ***Using repeated addition of a number***
* ***Transferring the sum of the repeated addition to the result of the multiplying operation to which it corresponds.***

***Summative Assessment:***

* ***Learning multiplying by 5***

***Specific vocabulary list/Keywords:***

* ***Equal groups***
* ***Elements of an equal group***
* ***Multiplying***
* ***Repeated addition***

***Short description of the educational context/scenario:***

***The students will watch the video with the activity of multiplying by 5. Using sign language they will be asked to identify groups of 5 objects in their classroom. They will receive different toys, objects, sticks and they will be encouraged to count equal groups of 5 elements. All the plastic sticks will be tightened to get equal groups of 5. The activities will start from counting the elements, showing equals groups of 5, repeated addition of 5 elements. In the end the transfer will be shown – from repeated addition to multiplying operation.***

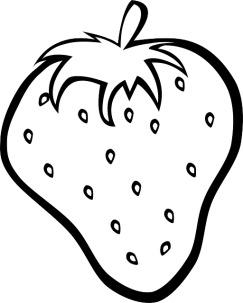
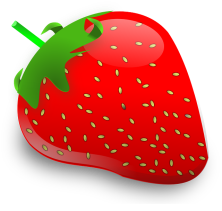
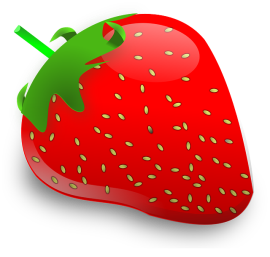
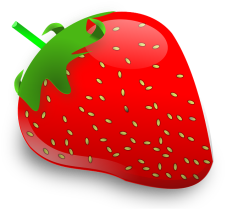
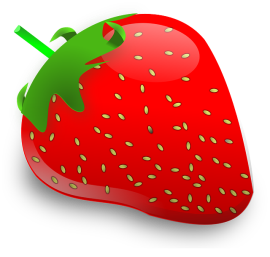
***Materials needed/Technical requirements:***

* ***Plastic or wooden sticks, glasses of plastic/ card, tape, writing markers, scissors.***

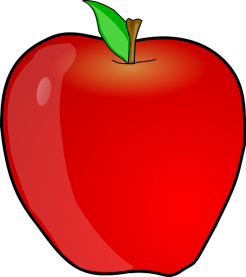
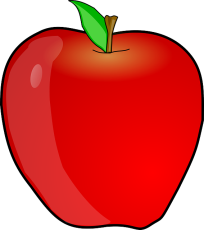
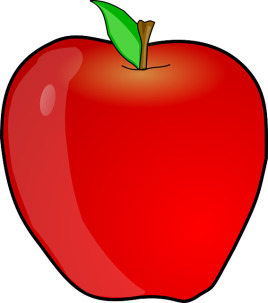
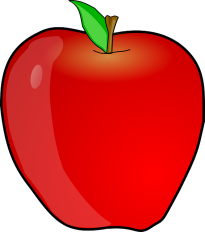
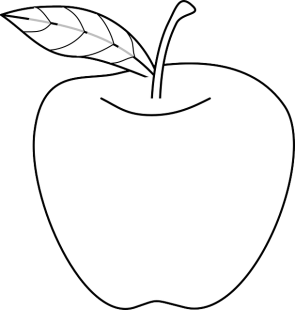
***Focus on sign language:***

* ***Indicating all the learning steps in sign language***
* ***Using mathematic terminology in sign language***

1. **Colour the 5th fruit .**

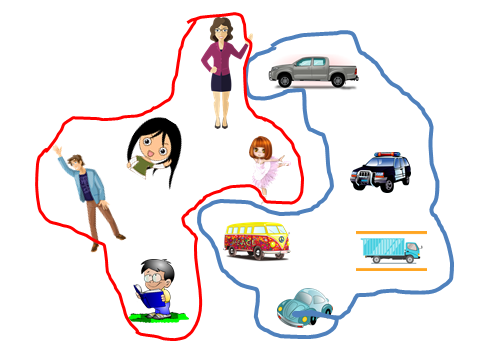
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**    **

**    **

**2. Circle the elements belonging to the same category.**

**Example:**

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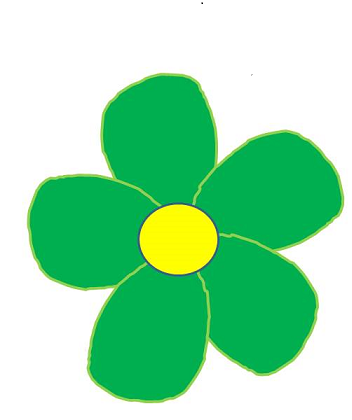
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**3. Fill in each group so they all have 5 elements each.**

5

5

5



5

5

5



**4. Fill in the rows.**

1. **Ascending.**

1 2 3 4 5

1. 1 \_\_ \_\_ \_\_ 5. b) 1 \_\_ 3 \_\_ 5.

1. \_\_ 2 \_\_ 4 \_\_. d) 1 \_\_ \_\_ 4 \_\_.

e)1 \_\_ \_\_ 4 \_\_. f) \_\_ \_\_ \_\_ \_\_ \_\_ .

1. **Descending.**

5 4 3 2 1

a) 5 \_\_ \_\_ \_\_ 1. b) 5 \_\_ 3 \_\_ 1.

1. \_\_ 4 \_\_ 2 \_\_. d) \_\_ 4 \_\_ \_\_ 1.

1. 5 \_\_ \_\_ 2 \_\_. f) \_\_ \_\_ \_\_ \_\_ \_\_.

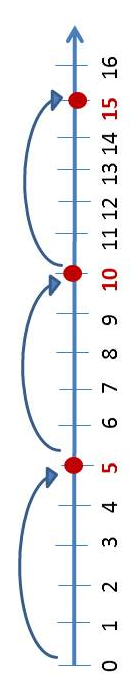
**C. Fill in the missing numbers.**

1. 1 2 3 4 \_\_ 6 7 8 9 \_\_\_ 11 12 13 14 \_\_\_ 16 17 18 19 \_\_\_ .

**b)** 33 34 \_\_ 36 37 38 39 \_\_\_ 41 42 43 44 \_\_\_ 46 47 48 49 \_\_ 51.

**c)** 18 19 \_\_ 21 \_\_\_ \_\_\_ \_\_\_ \_\_\_ 26 27 28 \_\_\_ \_\_\_ 31 32 33 34.

1. **Fill in with the missing number by counting from 5 to 5.**

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**Exemple: 5, 10, 15, 20…………**

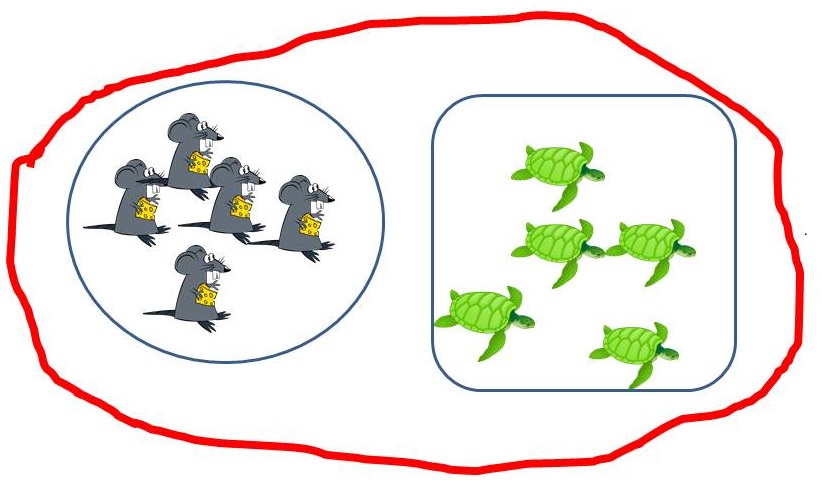
1. 5, 10, \_\_ , \_\_ , 25, \_\_, 35 .
2. 20, \_\_, 30 , \_\_, 40 , \_\_, 50 .

1. 10, \_\_, 20 , \_\_, \_\_ , \_\_, 40 .
2. 50, 45 , \_\_ , 35 , \_\_ , \_\_, 20 .

**5.**

1. **Count the animals from the two groups.**

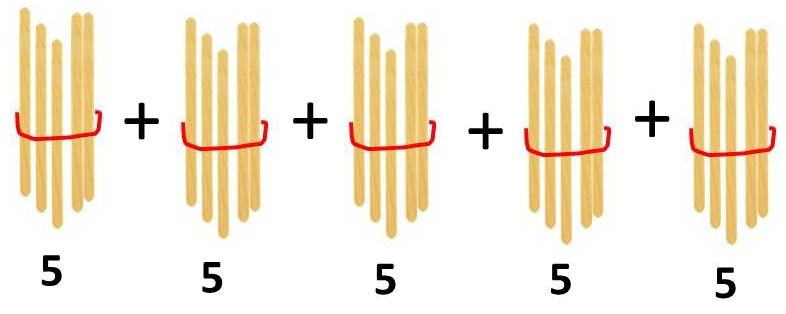




1. **Add the sticks and write the sum.**

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1. **Write the sum of the additions below:**



**=**

**5+5+5 =**

**5+5+5+5+5+5 =**

**5+5+5+5 =**

**5+5+5+5+5+5+5+5+5 =**

**5+5=**

**5+5+5+5 +5 =**

**5+5+5+5+5 +5+5 =**

**5+5+5+5+5+5+5+5+5+5 =**

**5+5+5+5+5+5+5+5 =**

**7. Use the repeated addition and then write the multiplying operation.**

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**Example: 5+5+5= 15 3 X 5 = 1 5**

**X**

\_\_\_\_ X \_\_\_\_ =\_\_\_\_\_

\_\_\_\_ X \_\_\_\_ =\_\_\_\_\_

\_\_\_\_ X \_\_\_\_ =\_\_\_\_\_

\_\_\_\_ X \_\_\_\_ =\_\_\_\_\_

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\_\_\_\_ X \_\_\_\_ =\_\_\_\_\_

\_\_\_\_ X \_\_\_\_ =\_\_\_\_\_

\_\_\_\_ X \_\_\_\_ =\_\_\_\_\_

**+**

**5**

**5+5=**

**5+5+5 =**

**5+5+5+5 =**

**5+5+5+5+5 =**

**5+5+5+5 +5 +5=**

**5+5+5+5 +5 +5+5=**

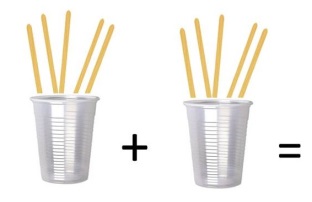
**5+5+5+5 +5 +5+5+5=**

**5+5+5+5 +5 +5+5+5+5=**

**5+5+5+5 +5 +5+5+5+5+5=**

1. **Look at the images and then write the multiplying operation.**

**Example:**



**2 x 5**

** **

**+**

** **

**+**

**+**

****

**=**

+

****

**+**

**+**

**+**

**+**

1. **Match the multiplying operation with its result.**

****

**5 x 5 10**

**9 x 5 20**

**2 x 5 5**

**7 x 5 45**

**4 x 5 25**

**8 x 5 15**

**1 x 5 50**

**3 x 5 35**

**10x 5 40**

1. **Write the result of the next multiplying operations.  = ?**

1 X 5 =

2 X 5 =

3 X 5 =

4 X 5 =

5 X 5 =

6 X 5 =

7 X 5 =

8 X 5 =

9 X 5 =

10 X 5 =

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