Name: Teacher: Class:

**5.2 Counting and Comparing**

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| --- | --- | --- |
| **You need to learn to:** | **Pre-learning assessment** | **Post-learning assessment** |
| 1. Understand place value in numbers with up to seven digits | *1,2,3* | *1,2,3* |
| 1. Order numbers up to and including those with seven digits | *1,2,3* | *1,2,3* |
| 1. Write numbers up to and including those with seven digits | *1,2,3* | *1,2,3* |
| 1. Read numbers up to and including those with seven digits | *1,2,3* | *1,2,3* |
| 1. Know the meaning of the Roman numerals D and M | *1,2,3* | *1,2,3* |
| 1. Interpret a year when written in Roman numerals | *1,2,3* | *1,2,3* |
| 1. Count backwards in whole number steps when negative numbers are included | *1,2,3* | *1,2,3* |
| 1. Count forwards in whole number steps when negative numbers are included | *1,2,3* | *1,2,3* |
| 1. Understand and use temperatures below 0°C | *1,2,3* | *1,2,3* |
| 1. Interpret negative numbers in other contexts | *1,2,3* | *1,2,3* |

**Assessments**

|  |  |  |
| --- | --- | --- |
| Assessment | What score **I think** I’ll get out of 30  (complete **before** assessment) | What score **I did** get out of 30  (complete **after** assessment) |
| Diagnosis assessment | /30 = % | /30 = % |
| Test assessment | /30 = % | /30 = % |

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**5.2 Counting and Comparing**

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| **You need to learn to:** | **Pre-learning assessment** | **Post-learning assessment** |
| 1. Understand place value in numbers with up to seven digits | *1,2,3* | *1,2,3* |
| 1. Order numbers up to and including those with seven digits | *1,2,3* | *1,2,3* |
| 1. Write numbers up to and including those with seven digits | *1,2,3* | *1,2,3* |
| 1. Read numbers up to and including those with seven digits | *1,2,3* | *1,2,3* |
| 1. Know the meaning of the Roman numerals D and M | *1,2,3* | *1,2,3* |
| 1. Interpret a year when written in Roman numerals | *1,2,3* | *1,2,3* |
| 1. Count backwards in whole number steps when negative numbers are included | *1,2,3* | *1,2,3* |
| 1. Count forwards in whole number steps when negative numbers are included | *1,2,3* | *1,2,3* |
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| 1. Interpret negative numbers in other contexts | *1,2,3* | *1,2,3* |

**Assessments**

|  |  |  |
| --- | --- | --- |
| Assessment | What score **I think** I’ll get out of 30  (complete **before** assessment) | What score **I did** get out of 30  (complete **after** assessment) |
| Diagnosis assessment | /30 = % | /30 = % |
| Test assessment | /30 = % | /30 = % |

**5.2 Counting and Comparing** Date:

**Diagnosis (to be taken before the topic is taught)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Question n.o.** | **Question** | **Workings and answer** | Macintosh HD:private:var:folders:65:l364j7q962v4_xf3302b347w0000gn:T:TemporaryItems:imgres.jpg |
| 1 | 7,345,261  What is the value of the:   1. 5 2. 2 3. 7 4. 4 | a)  b)  c)  d) | (4) |
| 2 | Put the following numbers in order from smallest to biggest:  8,741,375  8,174,753  8,471,735  8,714,357  8,417,375 | smallest  biggest | (5) |
| 3 | Write in digits the following numbers:   1. Three million, four hundred and six thousand, and fifty three 2. Seven million, forty thousand, one hundred and ninety three. 3. Nine million and five 4. Eleven million, sixty four thousand and eighty three. | a)  b)  c)  d) | (4) |
| 4 | Write the following numbers in words:   1. 6,340,021 2. 8,901,362 3. 5,472,803 4. 9,632,009 | a)  b)  c)  d) | (4) |
| 5 | What number does the letter “D” stand for in roman numerals? |  | (1) |
| 6 | Write the following years in digits:   1. MMIX 2. MMLVII | a)  b) | (2) |
| 7 | Continue these sequences:   1. 6, 3, 0, , \_\_\_\_, \_\_\_\_\_ 2. 4, 1, -1, \_\_\_\_\_, \_\_\_\_\_ 3. -18, -13, \_\_\_\_, \_\_\_\_\_\_ | a)  b)  c) | (3) |
| 8 | Fill in the missing numbers:   1. \_\_\_\_\_, \_\_\_\_\_, -1, 4, 9 2. -12, \_\_\_\_\_, --8, \_\_\_\_\_, -4 3. -20, \_\_\_\_, \_\_\_\_\_, 0 | a)  b)  c) | (3) |
| 9 | What temperature does the thermometer show below:  [http://www.leslienettling.com/U7Thermom.jpg](http://www.google.co.uk/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.leslienettling.com/nettling5thohiomathtable.htm&ei=1pafVcCiFeKp7AbLqoOoAg&bvm=bv.96952980,d.ZGU&psig=AFQjCNF-aSMd44NXLZO_lN1mWZCz_oLMVA&ust=1436608533519571)  On the diagram below, show a temperature of -6oC:  [http://www.activities-for-the-kids.co.uk/kids_activities_plans/Year%204/Maths/Maths-A1/Day12-thermometer-neg.no.JPG](http://www.google.co.uk/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.activities-for-the-kids.co.uk/teachers-year-4-Numeracy.htm&ei=OJefVeyaE--X7QaT7LvwBQ&psig=AFQjCNF-aSMd44NXLZO_lN1mWZCz_oLMVA&ust=1436608533519571) |  | (2) |
| 10 | I have £30 and spend £45. How much money do I now have?  A lift is on the third floor and descends by 4 floors. What floor is it on now? |  | (2) |

**5.2 Counting and Comparing** Date:

**Test (to be taken after the topic is taught)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Question n.o.** | **Question** | **Workings and answer** | Macintosh HD:private:var:folders:65:l364j7q962v4_xf3302b347w0000gn:T:TemporaryItems:imgres.jpg |
| 1 | 8,645,312  What is the value of the:   1. 5 2. 4 3. 8 4. 3 | a)  b)  c)  d) | (4) |
| 2 | Put the following numbers in order from smallest to biggest:  3,721,376  3,172,763  3,271,736  3,712,367  3,217,376 | smallest  biggest | (5) |
| 3 | Write in digits the following numbers:   1. Five million, six hundred and four thousand, and seventy two 2. Nine million, fifty thousand, three hundred and ninety-two. 3. Eight million and eleven 4. Twelve million, sixty -two thousand and ninety three. | a)  b)  c)  d) | (4) |
| 4 | Write the following numbers in words:   1. 3,320,021 2. 8,901,332 3. 1,272,803 4. 9,332,009 | a)  b)  c)  d) | (2) |
| 5 | What number does the letter “M” stand for in roman numerals? |  | (1) |
| 6 | Write the following years in digits:   1. MMXVI 2. MMLIXIV | a)  b) | (2) |
| 7 | Continue these sequences:   1. 10, 3, \_\_\_\_, \_\_\_\_\_ 2. -1, -3, \_\_\_\_\_, \_\_\_\_\_ 3. -15, -12, \_\_\_\_, \_\_\_\_\_\_ | a)  b)  c) | (3) |
| 8 | Fill in the missing numbers:   1. \_\_\_\_\_, \_\_\_\_\_, -1, 2, 9 2. -12, \_\_\_\_\_, --8, \_\_\_\_\_, -2 3. -20, \_\_\_\_, \_\_\_\_\_, 0 | a)  b)  c) | (3) |
| 9 | What temperature does the thermometer show below:    On the diagram below, show a temperature of -4oC:  [http://www.activities-for-the-kids.co.uk/kids_activities_plans/Year%204/Maths/Maths-A1/Day12-thermometer-neg.no.JPG](http://www.google.co.uk/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http://www.activities-for-the-kids.co.uk/teachers-year-4-Numeracy.htm&ei=OJefVeyaE--X7QaT7LvwBQ&psig=AFQjCNF-aSMd44NXLZO_lN1mWZCz_oLMVA&ust=1436608533519571) |  | (2) |
| 10 | I have £20 and spend £45. How much money do I now have?  A lift is on the third floor and descends by 5 floors. What floor is it on now? |  | (2) |