Name: Teacher: Class:

**5.1 Numbers and the Number System**

|  |  |  |
| --- | --- | --- |
| **You need to learn to:** | **Pre-learning assessment** | **Post-learning assessment** |
| 1. Know the meaning of ‘multiple’ | *1,2,3* | *1,2,3* |
| 1. Identify multiples of a given number | *1,2,3* | *1,2,3* |
| 1. Know the meaning of ‘factor’ | *1,2,3* | *1,2,3* |
| 1. Know how to find factors of a given number | *1,2,3* | *1,2,3* |
| 1. Know the meaning of ‘common factor’ | *1,2,3* | *1,2,3* |
| 1. Know the meaning of ‘prime number’ | *1,2,3* | *1,2,3* |
| 1. Recall the prime numbers less than 20 | *1,2,3* | *1,2,3* |
| 1. Know how to test if a number up to 100 is prime | *1,2,3* | *1,2,3* |
| 1. Understand the use of notation for squared and cubed | *1,2,3* | *1,2,3* |
| 1. Work out the first 10 square numbers | *1,2,3* | *1,2,3* |
| 1. Work out the first 5 cube numbers | *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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**Assessments**

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| Test assessment | /30 = % | /30 = % |

**5.1 Numbers and the Number System** 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 | How would you explain to someone else what a multiple is? |  | (1) |
| 2 | From the list below write down all the multiples of 7:  23 42 14 23 77 21 45 21 35 |  | (2) |
| 3 | Is 6 a factor of 42?  Explain how you know. |  | (2) |
| 4 | Write down all the factors of 72 |  | (4) |
| 5 | Find a common factor for each pairs of numbers:   1. 4 and 9 2. 3 and 12 3. 8 and 12 |  | (3) |
| 6 | How would you explain what a prime number is? |  | (2) |
| 7 | Which of the following numbers are prime numbers:  7 9 11 13 15 17 19 |  | (3) |
| 8 | Is 51 a prime number?  Explain how you can know. |  | (2) |
| 9 | Write the following as multiplications:   1. 52 2. 23 3. 112 |  | (3) |
| 10 | Write down the missing square numbers below 100:  4 16 25 81 |  | (4) |
| 11 | Fill in the missing values:   1. 23 = 2. 43 = 3. 13 = 4. 33 = |  | (4) |

**5.1 Numbers and the Number System** 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 | How would you define the keyword multiple? |  | (1) |
| 2 | From the list below write down all the multiples of 8:  23 56 16 23 77 21 96 21 24 |  | (2) |
| 3 | Is 7 a factor of 42?  Explain how you know. |  | (2) |
| 4 | Write down all the factors of 48 |  | (4) |
| 5 | Find a common factor for each pairs of numbers:   1. 4 and 8 2. 5 and 14 3. 8 and 20 |  | (3) |
| 6 | Explain the term “Prime Number” |  | (2) |
| 7 | List all the prime numbers below 20 |  | (3) |
| 8 | Is 47 a prime number?  Explain how you can know. |  | (2) |
| 9 | Write the following as multiplications:   1. 72 2. 43 3. 212 |  | (3) |
| 10 | Write down the missing square numbers below 100:  4 16 36 81 |  | (4) |
| 11 | Fill in the missing values:   1. 33 = 2. 53 = 3. 13 = 4. 23 = |  | (4) |