Name: Teacher: Class:

**5.1 Numbers and the Number System**

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| --- | --- | --- |
| **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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**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) |