2015 Year 7 Number Test

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 56 marks

1. Write 3529 using expanded notation.

[1]

1. Using the number 5462
2. Write the number in words [1]

1. Give the place value of the 6 digit \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [1]
2. What is the value of the 4 digit? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [1]
3. Write three thousand four hundred and seventy two in numeral form.

[1]

1. Write as a simple (basic) numeral.

[1]

1. Show full working for the following questions   
   (marks will only be awarded if correct working is shown).

|  |  |
| --- | --- |
| [1] | [2] |
| [1] | [2] |
| [1] | [1] |
| [1] | [2] |

1. Show full working for the following questions   
   (marks will only be awarded if correct working is shown).

|  |  |
| --- | --- |
| 1. Find the sum of 11 and 82   [2] | 1. Calculate the difference between  63 and 21   [2] |
| 1. What is the product 15 and 3?   [2] |  |

1. List the first 3 square numbers \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [1]
2. What is the opposite operation of multiplication? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [1]
3. a) Write in index form. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [1]
4. Give in index form and as a basic numeral

Index form\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[2]

Basic numeral\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[1]

1. List all of the factors of 24. [2]

1. a) Give the first 4 multiples of 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [1]
2. Find the lowest common multiple of 8 and 6.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [2]

1. Find the highest common factor of 12 and 18.

[2]

1. Give the first 3 prime numbers \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [1]
2. Rewrite as a basic numeral:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [1]

1. Using leading figure estimation, approximate the answers to the following problems   
   (correct working must be shown):

|  |  |  |
| --- | --- | --- |
| [2] | [2] | [2] |
| [2] | [2] |  |

1. a) Draw the prime factor tree for 36 [2]

b) Write 24 as a product of prime factors.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [1]

1. Complete the sentence [1]
2. Use the **distributive property** to evaluate the problems   
   (show full working and your use of the distributive property):

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [2]

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [2]