Name: Teacher: Class:

**7.2 Counting and Comparing**

|  |  |  |
| --- | --- | --- |
| **You need to learn to:** | **Pre-learning assessment** | **Post-learning assessment** |
| 1. Place a set of negative numbers in order
 | *1,2,3* | *1,2,3* |
| 1. Place a set of mixed positive and negative numbers in order
 | *1,2,3* | *1,2,3* |
| 1. Identify a common denominator that can be used to order a set of fractions
 | *1,2,3* | *1,2,3* |
| 1. Order fractions where the denominators are not multiples of each other
 | *1,2,3* | *1,2,3* |
| 1. Order a set of numbers including a mixture of fractions, decimals and negative numbers
 | *1,2,3* | *1,2,3* |
| 1. Use inequality symbols to compare numbers
 | *1,2,3* | *1,2,3* |
| 1. Make correct use of the symbols = and ≠
 | *1,2,3* | *1,2,3* |

**Assessments**

|  |  |  |
| --- | --- | --- |
| Assessment | What score **I think** I’ll get out of 40(complete **before** assessment) | What score **I did** get out of 40(complete **after** assessment) |
| Diagnosis assessment | /40 = % | /40 = % |
| Test assessment | /40 = % | /40 = % |

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**7.2 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 | Put the following numbers in order, smallest to biggest-12, -6, -3, -2, -1, -10, -9 | smallestbiggest | (3) |
| 2 | Place the following sets of numbers in ascending order: | smallestbiggest | (3) |
| 3 | Calculate the followinga) 48 ÷ 0.6 b) 144 ÷ 1.2c) 720 ÷ 0.8d) 63 ÷ 90e) 360 ÷ 1.2 | a)b)c) d)e) | (5) |
| 4 | By using inverse operations solve the following:-a) 51 ÷ 17 = b) 90 ÷ 18 = c) 161 ÷ 23 | a)b)c) | (3) |
| 5 | Calculate the following. You must use a different strategy for each question. (your working out is set out in a different way for each)1. 76 x 538
2. 486 x 736
 | a)b) | (2) |
| 6 | Calculate the following1. 4 + 5 x (7.2)
2. 17.4 + 3.6 ÷ (3)
3. (0.5)2 + (7)2
4. 56 – 3.25 x 8
5. (3.6 + 2.4)2 \_

 60 – (19.6 + 4.4) | a)b)c)d)e) | (5) |
| 7 | Number DashComplete the following ‘quick fire’ times table questions.a)b) c)d)e)f)g)h)i)j) | a)b) c)d)e)f)g)h)i)j) | (10) |
| 8 | BIDMAS tells me to do addition before subtraction. Therefore10 – 5 + 7 = -2 True / FalseExplain your answer | a) | (1) |
| 9 | Complete the following Binary sums1. 11 + 1
2. 101 + 110
3. 1001 + 1011
4. 1101 – 101
5. 11001 – 110
 | a)b)c)d)e) | (5) |

**7.2 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 | Given 564 x 73 = 41172, answer the followinga) 5.64 x 73 =b) 56.4 x 7.3 = c) 41172 ÷ 73 =d) 41172 ÷ 5.64 = | a)b)c) d) | (4) |
| 2 | Calculate the followinga) 12 x 0.7 b) 11 x 1.2c) 0.7 x 0.9d) 0.2 x 50e) 400 x 0.05 | a)b)c) d)e) | (5) |
| 3 | Calculate the followinga) 54 ÷ 0.6 b) 96 ÷ 1.2c) 640 ÷ 0.8d) 6.3 ÷ 30e) 360 ÷ 1.2 | a)b)c) d)e) | (5) |
| 4 | By using inverse operations solve the following:-a) 96 ÷ 16 = b) 102 ÷ 34 = c) 115 ÷ 23 | a)b)c) | (3) |
| 5 | Calculate the following. You must use a different strategy for each question. (your working out is set out in a different way for each)1. 57 x 368
2. 845 x 374
 | a)b) | (2) |
| 6 | Calculate the following1. 7 + 5 x (3.2)
2. 16.2 + 4.8 ÷ (3)
3. (0.3)2 + (0.7)2
4. 53.25 – 3.25 x 8
5. (1.6 + 4.4)2 \_

 42 – (12.6 + 11.4) | a)b)c)d)e) | (5) |
| 7 | Number DashComplete the following ‘quick fire’ times table questions.a)b) c)d)e)f)g)h)i)j) | a)b) c)d)e)f)g)h)i)j) | (10) |
| 8 | BIDMAS tells me to do addition before subtraction. Therefore10 – 8 + 5 = -3 True / FalseExplain your answer | a) | (1) |
| 9 | Complete the following Binary sums1. 11 + 11
2. 101 + 110
3. 1001 + 1011
4. 1101 – 101
5. 11001 – 110
 | a)b)c)d)e) | (5) |