Name: Teacher: Class:

**7.2 Counting and Comparing**

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

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| --- | --- | --- | --- |
| **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 | smallest  biggest | (3) |
| 2 | Place the following sets of numbers in ascending order: | smallest  biggest | (3) |
| 3 | Calculate the following  a) 48 ÷ 0.6  b) 144 ÷ 1.2  c) 720 ÷ 0.8  d) 63 ÷ 90  e) 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 following   1. 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 Dash  Complete 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. Therefore  10 – 5 + 7 = -2  True / False  Explain your answer | a) | (1) |
| 9 | Complete the following Binary sums   1. 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)**

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| **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 following  a) 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 following  a) 12 x 0.7  b) 11 x 1.2  c) 0.7 x 0.9  d) 0.2 x 50  e) 400 x 0.05 | a)  b)  c)  d)  e) | (5) |
| 3 | Calculate the following  a) 54 ÷ 0.6  b) 96 ÷ 1.2  c) 640 ÷ 0.8  d) 6.3 ÷ 30  e) 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 following   1. 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 Dash  Complete 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. Therefore  10 – 8 + 5 = -3  True / False  Explain your answer | a) | (1) |
| 9 | Complete the following Binary sums   1. 11 + 11 2. 101 + 110 3. 1001 + 1011 4. 1101 – 101 5. 11001 – 110 | a)  b)  c)  d)  e) | (5) |