**GRADE 7 MATHEMATICS MEMORADUM**

**MARKS: 70**

**MARCH TEST**

**QUESTION 1**

|  |  |  |  |  |  |  |  |  |  |
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| **QUESTION** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **Marks** |
| **ANSWER** | **D**✓ | **B**✓ | **D**✓ | **B**✓ | **A**✓ | **C**✓ | **B**✓ | **C**✓ | **8** |

**QUESTION 2**

|  |  |  |  |
| --- | --- | --- | --- |
| **NO.** | **ANSWER** | **ALLOCATION OF MARKS** | **MARKS** |
| 2.1 | 24 502  + 35 798  60 300 ✓✓ | 1 Mark for 60  1 Mark for 300 | 2 |
| 2.2. | 23 001  – 22 999  2 ✓✓ | 2 Marks for the answer | 2 |
| 2.3 | 378 45     |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  | 3 | 7 | 8 | |  |  | x | 4 | 5 | |  | 1 | 8 | 9 | 0 | | 1 | 5 | 1 | 2 | 0 | | 1 | 7 | 0 | 1 | 0 |   OR     |  |  |  |  |  | | --- | --- | --- | --- | --- | | x |  | 3 | 7 | 8 | | 4 |  | 1    2 | 2    8 | 3  2 | | 5 |  | 1  5 | 3  5 | 4  0 | | 1 | 7 | 0 | 1 | 0 | | 1 Mark for 1 890  1 Mark for 15 120  1 Mark for 17 010  1 Mark for top multiplying by 4  1 Mark for top multiplying by 5  1 Mark for 17 010 | 3 |
| 2.4 | 562 ✓  4 2248  - 20  24 ✓  - 24  8  -8 ✓  0  2 248 4 = 562 |  | 3 |
| 2.5 | 3 + 4 - 32  = 3 + 3 ✓ x 4 - 9✓  = 3 + 12 – 9 ✓  = 15 – 9  = 6 ✓ | 1 Mark for 3  1 Mark for 9  1 Mark for 12 (BODMAS)  1 Mark for 6 (Answer) | 4 |
|  |  |  | [14] |

**QUESTION 3**

|  |  |  |  |
| --- | --- | --- | --- |
| **NO.** | **ANSWER** | **ALLOCATION OF MARKS** | **MARKS** |
| 3.1. | 20% of R600  x R600 ✓  =  = R120 ✓  I must pay R600 – R120 ✓  = R480 ✓ | 1 Mark for x R600  1 Mark for R120  1 Mark for subtracting  1 Mark for correct answer | 4 |
| 3.2.1 | 5 x R350✓ = R 1 750 ✓  OR  R350 + R350 + R350 + R350 + R350✓ = R1 750✓ | 1 mark for 5 x R350  1 mark for correct answer | 2 |
| 3.2.2. | Total amount = R5000 + R1750 ✓  = R6 750 ✓ | 1 Mark for Adding  1 mark for the correct answer | 2 |
|  |  |  | [8] |

**QUESTION 4**

|  |  |  |  |
| --- | --- | --- | --- |
| **NO.** | **ANSWER** | **ALLOCATION OF MARKS** | **MARKS** |
| 4.1. | = 1:5 |  | 1 |
| 4.2 | Sum of the ratios = 1 + 5 OR  = 6 = R40  Nathi’s share = x R240  = = 1 x R40  = R40 = R40  Ayanda’s share = x R240 OR 5 x R40  = = R200  = R200 |  | 4 |
| 4.3 | Andile’s speed =  =  = 107km/h  Chris’s speed =  100km/h  Andile travelled the fastest. |  | 5 |
| 4.4. | F12 = 1 ; 2 ; 3 ; 4 ; 6 ; 12  F32 = 1 ; 2 ; 4 ; 8 ; 16 ; 32  HCF of 12 and 32 = 4  OR  12 = 2 x 2 x 3  32 = 2 x 2 x 2 x 2 x 2  HCF = 2 x 2 = 4 |  | **3** |
| 4.5. | M3 = 3; 6 ; 9; 12 ; 15; 18 ; 21; 24 ; 27 ; 30  M5 = 5; 6 ; 9; 12 ; 15; 18 ; 21; 24 ; 27 ; 30  M10 = 10 ; 20 ; 30 ; 40 ; 50 ; 60 ; 70  The LCM of 3 ; 6 and 10 = 30  OR  Prime factors  3 = 3  5 = 5  10 = 2 x 5  LCM = 2 x 3 x 5  = 30 |  | **4** |
| 4.6.1. | 1;8;24 ✓ | 1 mark for all 3 numbers | **1** |
| 4.6.2. | 24;48 ✓ | 1 mark for all 2 numbers | **1** |
| 4.6.3. | 2;13 ✓ | 1 mark for all 2 numbers | **1** |
|  |  |  | **[20]** |

**QUESTION 5**

|  |  |  |  |
| --- | --- | --- | --- |
| **NO.** | **ANSWER** | **ALLOCATION OF MARKS** | **MARKS** |
| 5.1.1. | Greater than 00 but less than 900/ Between 00 and 900 ✓ |  | **1** |
| 5.1.2. | Right angle ✓ |  | **1** |
| 5.1.3. | Any angle greater than 900 but less than 1800  ✓ |  | **1** |
| 5.1.4. | Exactly 1800 ✓ |  | **1** |
| 5.1.5. | Reflex angle ✓ |  | **1** |
|  |  |  |  |
| 5.2.1. | AC = 7cm ✓ ∆ABC is an isosceles triangle/ Given ✓ | 1 mark for 7 cm  1 mark for reason | **2** |
| 5.2.2. | ∠B = ✓  ∠B = ✓  ∠B = 800  ✓ |  | **3** |
| 5.2.3. | ∠C = 800 ✓ Angles opposite equal sides of an isosceles triangle are equal✓ | 1 mark for 800  1 mark for reason | **2** |
|  |  |  |  |
| 5.3.1. | CD = 5 cm ✓ All sides of a square are equal/Opposite sides of a square are equal. ✓ | 1 mark for 5 cm  1 mark for reason | **2** |
| 5.3.2. | AD ✓ |  | **1** |
| 5.3.3. | 900 ✓ |  | **1** |
|  |  |  |  |
| 5.4. | A and D are congruent ✓ because they have the same shape and size. ✓  B and C are similar ✓ because they have the same shape but different sizes ✓ | 1 mark for answers  1 mark for reasons  respectively | **4** |
|  |  |  | **[20]** |
|  |  | TOTAL | **[70]** |