ERRATA FOR MATHEMATICS AND MATHEMATICAL SCIENCES (MMSC4) 2016

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| QUESTION No. | FINDINGS ON TASK | FINDINGS ON TOOL | RECOMMENDATIONS |
| ASSIGNMENT | | | |
| 1.1.1 |  | Company C is 15 instead of 17 | Correct Company C to 17. |
| 1.1.1 | Company E has 23 workers per class |  | Change 23 to 25 |
| 2.1.1 | Mark allocation is 2 |  | Ensure that marks on the task and tool corresponds.  Correct it to 4 marks |
| 2.2.1 | 1 mark instead of 2 marks |  | Change to 2 marks |
| 3.3.1 | Position of numbers in row 2 |  | On electronic version shift row 2 numbers to correct position. |
| 3.3.2 |  | Allocated 2 marks instead of 1mark | Remove one tick and change mark allocation to 1 mark.  Change question 3 total to 20 marks |
| INVESTIGATION | | | |
| 1.1.1 – 1.1.7 | The question is not clear. Mark allocation is not clear. The tasks states that, use 5cm, 12cm and 13cm. | No answers on the memo to mark question 1.1.1 – 1.1.7.  The tool states that use the values 6, 8 and 10 | Please give clear instructions on task and tool. |
| 1.1.5 and 1.1.7 |  | There is no direct mark allocation on the rubric, although it requires some effort from the candidate. | Make the marking tool more understandable. |
| 2.1.6 |  | * Reference is made about large square. * = 150 is not number of required squares but the length of the side of the larger square. | * Calculation is for small squares * Proper calculation may be:   length of larger square  number of small squares  =  = 22 500 squares  NB: mark allocation would not be enough |
| Activity 1 |  | The rubric is a bit confusing.  There should have been some suggested answers in the tool. | Some suggested answers are shown at the end of this document. |
| QUESTION No. | FINDINGS ON TASK | FINDINGS ON TOOL | RECOMMENDATIONS |
| PROJECT | | | |
| 1.1.1 |  | Measurements on kitchen tile floor, bedroom 2 length and breadth seem to deviate with about 0,4 to 0,5 cm | Since its practical measurement, there should be a interval of acceptable measurements. Some problems may arise from the fact that diiferent computer systems my print the house plan with different dimensions. |
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| 1.1.2 |  | Answer is a square | Propose to accept rectangle by reason of 1.1.1 recommendations |
| 1.1.4-1.1.7 |  | Dimensions may vary and results of calculations may differ as well | May we consider follow-on on these questions based on measurements recorded in table in 1.1.1 |
| 1.1.5 | Not enough marks | No mark allocation | 5 marks should have been allocated for this responce |
| 1.1.7 |  | Area of the tiles  = 50cm x 50cm = 2500m2 | .... 2500cm2 |
| 1.4 (a) |  | Incorrect answers | 10 minutes after 9 O’clock in the evening |
| 2.1.4 |  | Area of two sides with triangular top:  Base of triangle = 4m | Base of triangle = 8m  2 x [(5m x 8m) + (8m)(3m)  2 x [40m2 + 12m2]  2 x [52m2]  104m2 |
| 2.1.4 |  | Final answer is 92m2 | = 100 m2 + 100 m2 + 104 m2  = 304 m2 |
| 2.2.1 |  | Incorrect net given | Consider one of the following:  C:\Users\Xolani\Documents\My Work\AET Level 4\GETC ABET L4 2016 SBAs\Contents\MMSC4 2016 SBAs E\net rect prism.png |
| 2.2.4 | Mark allocation is 6 | 7 marks for this question | Correct mark allocation on task to 7 marks |
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| QUESTION No. | FINDINGS ON TASK | FINDINGS ON TOOL | RECOMMENDATIONS |
| TEST | | | |
| 1.1 | PATTERN 2 shows two separate hexagons |  | The shapes must be merged such that they share a side |
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| WORKSHEET | | | |
| 2.3.2 | Typo error: “S” missing on “tep 2:” |  | It should read “Step 2:” |
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\*\*\*\* PLEASE SCRUTINISE THE RED TEXT, IT IS MY OPINION, BEFORE CIRCULATING IT

INVESTIGATION : Activity 1

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| 1.1.1 | (AC)2 = 102 = 100 | 1.1.5 | The square of the longest side (132) is equal to the square of the other two sides added together (52+122) in a right angled triangle. |
|  | (AB)2 = 62 = 36 |  |
|  | (BC)2 = 82 = 64 |  |
|  |  |  |  |
| 1.1.2 | (AB)2 + (AC)2 = 36+100 =136 | 1.1.6 | A non right-angled triangle must be drawn with dimensions 13:9:10 |
|  | (AB)2 + (BC)2 = 36+64 = 100 |  | 132 = 169 |
|  | (BC)2 + (AC)2 = 64+100 = 164 |  | 92 = 81 |
|  |  |  | 102 = 100 |
| 1.1.3 | (AB)2 + (AC)2 = (BC)2 |  | Comparison of the longest side and the other two sides |
|  | 136 64 |  | 169 81 + 100 |
|  | LHS RHS |  | 169 181 |
|  |  |  |  |
|  | (AB)2 + (BC)2 = (AC)2 | 1.1.7 | No, if a triangle is not a right-angled triangle, the square of the longest side (169) is not equal to the sum of the squares of the other two sides (81 + 100). |
|  | 100 = 100 |  |
|  | LHS RHS |  |
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|  | (BC)2 + (AC)2 = (AB)2 |  | Theorem of Pythagorus: |
|  | 164 36 |  | In any right angled triangle, the square of the longest side is equal to the sum of the squares of the other two sides. |
|  | LHS RHS |  |  |
| 1.1.4 | A right angled triangle to be drawn  132 = 169  52 = 25  122 =144  Comparison of the longest side and the other two sides  169 = 25 + 144  169 = 169 |  |  |
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