

Province of the

**EASTERN CAPE**

EDUCATION

**INTERMEDIATE**

**PHASE**

**GRADE 6**

**JUNE 2010**

|  |
| --- |
| **MATHEMATICS**  **MARKING GUIDELINE** |

**MARKS: 50**

**TIME: 1 hour**

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| --- |
| This marking guideline consists of 3 pages. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Question** | | | **Expected answer** | | **Marks** |
| 1 | Fifty thousand√ | | | | 1 |
| 2 | 2.1 | | 86 000√ | | 1 |
| 2.2 | | 86 370√ | | 1 |
| 3 | 2,20√ | | | | 1 |
| 4 | 4.1 | 123 450√ | | | 1 |
| 4.2 | 9 876 543√ | | | 1 |
| 4.3 | 9 876 543-123 450=9 753 093√√ | | | 2 |
| 5 | 5.1 | 11/20√ | | | 1 |
| 5.2 | 11/20 x 100= 55%√√ | | | 2 |
| 5.3 | 55 = 0,55√√  100 | | | 1 |
| 6 | 72 | | | | 1 |
| 7 | 2/3+3/4+3/2 √ or  = 8/12+ 9/12+ 18/12√  = 35/12  = 2 11/12√  So she needs 3 rolls √ | | | 2/3+3/4+3/2√  = 2x4+3x3+3x6  12  = 8+9+18√  12  = 35  12  =2 11/12√ So she needs 3 rolls √ | 4  -1 if  3 rolls is  not  mentioned |
| 8 | 8.1 | | 600g√ | | 1 |
| 8.2 | | 600g/1000 = 0,6kg√ | | 1 |
| 8.3 | | 400g√ | | 1 |
| 9 | 6 695 x 1000 = 6 695 000m (1km =1000m) √ | | | | 1 |
| 10 | 10.1 | | 6x 250*mℓ* = 1 500*mℓ*√ | | 1 |
| 10.2 | | 1000*m*ℓ =1 litre  1500*mℓ* = 1500/1000 = 1,5 *ℓ* or 1½ *ℓ* √ | | 1 |
| 11 | 11.1 | | 5 weeks√ | | 1 |
| 11.2 | | 35 days√ | | 1 |
| 12 | 512 x 56 = R28 672 √√ (Any method is acceptable) | | | | 2 |
| 13 | 13.1 | | 26 is the expected answer for stage 5 √  whatever method used is acceptable | | 1 |
| 13.2 | | 1x5+1 =6 (any logical method is acceptable)  2x5+1=11  3x 5 +1=16  15x 5 +1 = 76 (any logical method is acceptable) √ | | 1 |
| 13.3 | | 1x5+1 =6  2x5+1=11;  Any number multiplied by 5√√ then add 1 √  Thus 5x n +1 or  any reasonable generalization | | 3 |
| 14 | 5 as the input √ and 143√ as the output | | | | 2 |

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| 15 | |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Shape** | **Name** | **No. of faces** | **No. of vertices** | **No. of edges** | |  |  | 6√ | 8√ |  | |  |  |  | 4√ | 6√ | | | 4 |
| 16 | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  | | | 2  1 mark  for each  correct  dimension |
| 17 | 17.1 |  | 1 |
| 17.2 |  | 2  1 mark for  Rotation  1 mark for  90º |
| 18 | 18.1 | |  |  |  | | --- | --- | --- | | **City** | **Tallies** | **Frequency** | | Durban | ~~////~~ ~~////~~ ~~////~~ ~~////~~ //// |  | | Cape Town |  | 16√ | | Port Elizabeth |  |  | | Johannesburg |  |  | | 2 |
|  |  |  |  |
|  | 18.2 |  |  |
|  | LEARNERS ATTENDING 2010 FIFA WORLD CUP  0  5  10  15  20  25  30  35  DBN  CT  PE  JHB  Number of learners | | 5 marks  1 mark each  bar  1 mark  for  correct scale |
|  | | **TOTAL:** | **50** |