

## GAUTENG DEPARTEMENT VAN ONDERWYS

## GRAAD 8

## JUNIE GEMEENSKAPLIKE VRAESTEL 2014

**MEMORANDUM**

|  |  |  |
| --- | --- | --- |
| **LEERAREA** | **:** | **WISKUNDE** |
| **TAAK 5** | **:** | **GESAMENTLIKE VRAESTEL** |
| **TYD** | **:** | **2URE** |
| **PUNTE** | **:** | **100** |

This assessment task consists of 5 pages

Afdeling A (1 × 10)

|  |  |
| --- | --- |
| Vraag | Antwoord |
| 1. | C |
| 2. | B |
| 3. | C |
| 4. | C |
| 5. | D |
| 6. | A |
| 7. | B |
| 8. | D |
| 9. | D |
| 10. | C |

Afdeling B

|  |  |  |  |
| --- | --- | --- | --- |
| Vraag 1 | | | |
| 1.1 | 2406 🗸    6 14436  - 12  24  -24  3 🗸 (*lang deling metode)*  - 0  36  36  0 🗸 | (3) | |
| 1.2.1 | 0, 12(3 + ) ÷ (1, 35 + 0, 65)  = () ÷ 2 🗸  = () **×**  🗸  =  🗸  =  🗸 | (4) | |
| 1.2.2 | ) ÷  = (2 + 4) ÷ 3 🗸  = 6 ÷ 3 🗸  = 2 🗸 | (3) | |
| 1.3 | = -140 C + 50 C 🗸  = -90 C 🗸 | (2) | |
| **[12]** | | | |
| Vraag 2 | | | |
| 2.1 | = 🗸  3 = 48 🗸  = 🗸  = 16 mans 🗸 | (4) | |
| 2.2 | 1 kg = R 35  25 g = 0,25 kg 🗸  0,25 g =  🗸  = R8, 75 🗸 | (3) | |
| 2.3.1 | 11 🗸 and 14 🗸 | (2) | |
| 2.3.2 | T1 = 2 = 3(1) – 1  T2 = 5 = 3(2) – 1  T3 = 8 = 3(3) – 1 🗸  Tn = 3n – 1 🗸🗸 | (3) | |
| 2.3.3 | Tn = 3n – 1  T15 = 3(15) – 1 🗸🗸  = 44 🗸 | (3) | |
| **[15]** | | | |
| Vraag 3 | | | |
| 3.1 | 70% van R125  =  R125 🗸  = R37, 50 🗸 | (2) | |
| 3.2.1 | £1 = R13,14 🗸  £2000 =  🗸  = R26 280 🗸 | (3) | |
| 3.2.2 | R10,46 = $1 🗸  R6 000 =  🗸  = $ 573,61 🗸 | (3) | |
| 3.3 | SI = *P×i×n* 🗸  = R10 000 × 0,12 × 3 🗸🗸  = R3 600 🗸 | (4) | |
| 3.4 | 10% van R7 500  = × R7 500  = R750 🗸  R350 × 24  = R8 400 🗸  Totale bedrag betaal = R750 + R8 400 🗸  = R9 150 🗸 | (4) | |
| **[16]** | | | |
| Vraag 4 | | | |
| 4.1.1 | 23 000 000 = 2,3 × 107 🗸 | (1) | |
| 4.1.2 | 0,000725 = 7,25 × 10-4 🗸 | (1) | |
| 4.2.1 | 🗸🗸  🗸 | (3) | |
| 4.2.2 | =  🗸  🗸+ 🗸 + 🗸 | (4) | |
| 4.3.1 | + 🗸+ - 🗸  +🗸- | (3) | |
| 4.3.2 | +  ++  🗸 + 🗸+🗸 + 🗸 | (4) | |
| **[16]** | | | |
| Vraag 5 | | | |
| 5.1.1 | 🗸  🗸 | (2) | |
| 5.1.2 | 🗸  🗸  🗸 | (3) | |
| 5.1.3 | 🗸  🗸  🗸  🗸 | (4) | |
| 5.2 | y = 2(x – 3)  x = -2 ; y = 2(-2 – 3) 🗸  = 2(-5)  = -10 🗸  x = -3 ; y = 2(-3 – 3)  = 2(-6)  = -12 🗸  x = -6 ; y = 2(-6 – 3)  = 2(-9)  = -18 🗸 | (4) | |
| 5.3 | Twee DVDs kost *x +* y  Die derde DVD kos 2(*x* + y) 🗸  Indien die koste van al drie C is:  *C = x +* y *+ 2(x +* y*)* 🗸  *C = 3x + 3*y 🗸 | (3) | |
| **[16]** | | | |
| Vraag 6 | | | |
| 6.1 | *i* + 550 + 620 = 1800 🗸 [som van ∠s van Δ] 🗸  *i*  + 1170 = 1800  *i* = 1800 - 1170  *i* = 630 🗸  *h* = 620 🗸  *j = i* = 630 🗸 [ooreenkomstige ∠s] 🗸 | | (6) |
| 6.2 | x = 600 [ ooreenkomstige ∠s] 🗸  x + y = 1800 [aangrensende/supplementêre ∠s] 🗸  y = 1800 - 600 🗸  = 1200 🗸 | | (4) |
| 6.3 | p = q = 220 [oorblywende ∠s] 🗸  ∴ ΔABC ΔDEF [∠∠∠] 🗸 | | (2) |
| 6.4 | x = 15cm🗸 and z = 10cm 🗸  [ooreenkomstige sye van ≡ Δs] 🗸 | | (3) |
| **[15]** | | | |