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**MATHEMATICS CYCLE TEST**

GRADE 8 TIME: 1 HOUR

EXAMINER: TOTAL: 60 MODERATOR:

**Memorandum**

***Are the following statements true or false? Write your answer in the space provided to you in the table.***

|  |  |  |
| --- | --- | --- |
| 1. | Natural numbers also include decimal numbers. | FALSE |
| 2. | 5 is equal to zero | FALSE |
| 3. | 1 + 2 × 6 + 11 × 2 = 58 | FALSE |
| 4. | A number divided by zero is undefined | TRUE |
| 5. | 5,95 as a percentage is 59, 5% | FALSE |
| 6. | ( is an example of the distributive law. | TRUE |
| 7. | The square root of 64 added to two cubed is 18 | FALSE |

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[7]

**Question 2**

2.1.1. 115 234 🗸 (1)

2.1.2. 321 774 🗸 (1)

2.1.3 32; 40; 48; 56 🗸 🗸 ( ½

2.1.4. ; 5 ; -5 ; -10 OR 49; 0; -5; -10 🗸 🗸 ( ½

2.1.5. 24 🗸 (1)

18= 2 🗸 (1)

2.1.6. HCF = 2 🗸 (1)

LCM= 🗸 (1)

**Question 3**

3.1. 8 - (-9) + 5 - 7 3.2. . 8

= 8 +9 +5 -7🗸 = - 48 🗸 (1)

= 15 🗸 (2)

3.3. 3.4. - (

= 🗸 = - (+ 4) 🗸 (for - ) 🗸(for +4)

= - 5 🗸 (2) = - 4 🗸 (3)

3.5 3.6.

= 64 - 27 🗸🗸 = 🗸

=37 🗸 (3) =🗸

= 4 🗸 (3)

**Question 4**

4.1.1 = 9 4.1.2

= 4🗸 (1) = 6 🗸 (1)

4.1.3 4.1.4. = 9

= 1 🗸(for = 3 🗸 (1)

= 1 full marks for correct answer 🗸🗸🗸 (3)

**Question 5**

5.1.1 3: 4 🗸 (1) 5.1.2. 200 :60 🗸

10 : 3 🗸 (2)

5.1.3. Increase R180 by 12%

🗸 (for and🗸 R21,60

Therefore the new price would be R201,60 🗸 (3)

5.1.5. 🗸

S = 🗸

S = 115 km/h 🗸

**Question 6**

6.1. 19 ; 25 🗸

6.2. 21; 24 🗸

6.3. 13; 21 🗸

6.4. 11;13 🗸

(1/2

6.5.

🗸🗸 ( 1 for each pattern)

6.6. 36 in the 8th pattern 🗸🗸

6.7. P = 2 🗸

Q= 3 🗸

T= 4 🗸

S= 5 🗸

**TOTAL : 60**