**Mathematics**

**…./07/2021**

**1:30 am -3:30 am**

 ****

 **P5 END YEAR OF EXAMINATIONS, 2020/2021**

 **MATHEMATICS**

**DURATION: 2H 30 MIN**

 /50

**MARKS:**

**Instructions:**

1. Don’t open this question paper until you are told to do so`.
2. All questions are compulsory.
3. Read each question carefully before answering it.
4. Use only a **blue** or black **pen**.

**ANSWER ALL QUESTIONS (50MARKS)**

1) What is the place value of digit 3 in the number 235 176 (**2marks)**

2) Workout: 472 142 + 203 515 + 102 124= **(3marks)**

3) 758 × 134 **(3marks)**

4) If one dress costs 25 000F. Calculate the cost of 12 dresses ? (**3marks)**

5) Workout (-4) + (–12) = **(2marks)**

6) Workout  (**3marks)**

7) Find the Greatest Common Factor (GCF) of 56 and 84 (**4marks)**.

8)Uwera earns a salary of 250 000Frw in a month. He spends his money as follows:

|  |  |
| --- | --- |
| **Items**  | **Costs**  |
| School fees | 40 000Frw |
| Food  | 30 000 Frw |
| Transport | 25 000 Frw |
| Water and electricity | 30 000 Frw |
| **Total** | **125 000 Frw** |

He saves the remaining money.

1. How much does he spend in total each month?
2. How much does he save each month? (**4marks)**
3. Why do you think it is important for Uwera to save? (**4marks)**

9)Workout  **(3marks**)

10)Prime factorize 48. And show the prime factors using indices. (3**marks)**

11) How many seconds are in 2 hours ?

12) A Kinyarwanda test started 8:30 a.m and ended 11:30 noon. How many hours did the test take (**3marks)**

13) Find the circumference of a circle garden whose diameter is 14m. (Take) (**4marks)**

14) Workout 4 hl – 20 dal = \_\_\_ litres **(2marks)**

**MATHEMATICS PRIMARY 5 COMPREHENSIVE 2020-2021, marking scheme**

**ANSWER ALL QUESTIONS (50MARKS)**

1) What is the place value of digit 3 in the number 235 176 (**2marks)**

 in 235 176 ; the place value of digit 3 is **ten thousands**

2) Workout: 472 142 + 203 515 + 102 124= **(3marks)**

**472 142 + 203 515 + 102 124=777781**

3) 758 × 134 **(3marks)**

**758 × 134=101 572**

4) If one dress costs 25 000F. Calculate the cost of 12 dresses ? (**3marks)**

**the cost of 12 dresses is 25 000Fx12=300 000F**

5) Workout (-4) + (–12) = **(2marks)**

 **(-4) + (–12) =-(4+12)**

 **=16**

6) Workout  (**3marks)**

****$\frac{0.052}{0.01}$

 **=5.2**

7) Find the Greatest Common Factor (GCF) of 56 and 84 (**4marks)**.

Factorize 56 and 84

|  |  |  |
| --- | --- | --- |
| 56 | 84 | 2 |
| 28 | 42 | 2 |
| 14 | 21 | 2 |
| 7 | 21 | 3 |
| 7 | 7 | 7 |
| 1 | 1 |  |

 **(GCF) of 56 and 84 is 7x2x2=**

 **7x4=28**

**GCF(56;84)=28**

8)Uwera earns a salary of 250 000Frw in a month. He spends his money as follows:

|  |  |
| --- | --- |
| **Items**  | **Costs**  |
| School fees | 40 000Frw |
| Food  | 30 000 Frw |
| Transport | 25 000 Frw |
| Water and electricity | 30 000 Frw |
| **Total** | **125 000 Frw** |

He saves the remaining money.

1. How much does he spend in total each month?

**40 000F+30 000F+25 000F+30 000F**= **125 000F** (**4marks)**

1. How much does he save each month? (**4marks)**

**The remaining money is 250 000F-125 000F=125 000F so he saved 125 000F**

1. Why do you think it is important for Uwera to save? (**4marks)**

**saving is very important because it can help in buying the basic wants and needs.**

**it can help for having better life ,paying school fees, buying clothers, buying food,…**

9)Workout  **(3marks**)

$\frac{17}{7}+\frac{51}{5}$

 =$\frac{17}{7}+\frac{51}{5}=\frac{85+357}{35}$

 $=\frac{85+357}{35}$=$\frac{442}{35}$

 =12$\frac{22}{35}$

or (2+10)$(\frac{3}{7}+\frac{1}{5})$

=12$\frac{15+7}{35}$=12$\frac{22}{35}$

10)Prime factorize 48. And show the prime factors using indices. (3**marks)**

**Factorize 48=48:2=24**

 **24:2=12**

 **12:2=6**

 **6:2=3**

 **3:3=1**

 **48=24.3**

11) How many seconds are in 2 hours ? (**3marks)**

**1h=60mn**

**2h =60mnx2=120mn**

**1mn=60sec**

**120mn=120mnx60=7,200s**

**2hours=7 200seconds**

12) A Kinyarwanda test started 8:30 a.m and ended 11:30 noon. How many hours did the test take

 (**3marks)**

 **11.30-8.30=3h**

13) Find the circumference of a circle garden whose diameter is 14m. (Take) (**4marks)**

**C=Dxπ**

**C=14x**$\frac{22}{7}$

**C=2x22=44m**

14) Workout 4 hl – 20 dal = \_\_\_ litres **(2marks)**

 4hl=400litres

 20dal =200litres

 **400litres -200litres =200litres**