**Grade 6 Mathematics 2015**

**Mock Examination**

**Marks: 60**

**Paper 1**

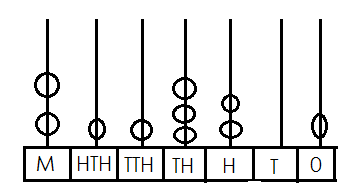
**Instructions**

1. Answer all questions
2. Show all necessary working on this sheet
3. This paper has two sections. Section A has 20 multiple choice questions
4. In section A cross (×) the correct option only on the answer grid provided.

**Section A**

1. 56.2
2. 362.068
3. 362.68
4. 36 268
5. 803 401
6. 83 401
7. 800 341
8. 830 341
9. 0.10
10. 0.11
11. 0.25
12. 1.00
13. 3km
14. 3cm
15. 30km
16. 30cm

**Question 1**

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1. What is the number shown by the abacus?

**Question 2**

Eighty three thousand four hundred and one in numerals is…

**Question 3**

0.96 when rounded off to the nearest tenth is

**Question 4**

Using a scale of 1:10km, what actual distance, if the scale length is 3cm

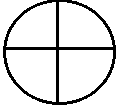
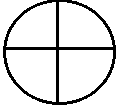
**Question 5**

1. 3/8
2. 11/15
3. 4/15
4. 9/15
5. 4/4
6. 1 3/4
7. 1 1/4
8. 5/8
9. 6cm
10. 36cm
11. 9cm
12. 18cm
13. equilateral
14. right angled
15. isosceles
16. scalene
17. 4 × ¼
18. 4 × 1/3
19. 4 × 2/4
20. 4 × 2/3

2/5 + 1/3 is equal to

**Question 6**

The diagrams below shows

**Question 7**

Given that diameter is 18cm, what is the radius

**Question 8**

Triangle that has equal sides and angles is?

**Question 9**

What is the multiplication shown in the number line below?

**Question 10**

The sum of 52 and 1.2 is

**Question 11**

What time is 40 minutes after 11:30pm?

**Question 12.**

At Mhubhe high school the number of school dropouts due to lack of

School fees triples every. If a pupil drops out in 2012, how many pupils

were expected to drop out in 2013

**Question 13**

Express 25% of a day in hours

**Question 14**

2 ½ + 1 1/3 is

1. 4.0
2. 40
3. 64
4. 53.2
5. 11:00pm
6. 11:70pm
7. 12:10am
8. 1210hrs
9. 27
10. 12
11. 6
12. 39
13. 25% hrs.
14. 24/25 hrs.
15. 25 hrs.
16. 6 hrs.
17. 3 2/6
18. 3 2/3
19. 3 2/5
20. 3 5/6

**Question 15**

Choose the correct sign for

10.2 [ ] 10.200

1. <
2. >
3. =
4. ?
5. 4 pieces
6. 5 pieces
7. 9 pieces
8. 10 pieces
9. 0.125kg
10. 1.25kg
11. 12.50kg
12. 125kg
13. 8.66
14. 6,88
15. 8.74
16. 12.74
17. 16/5
18. 29/5
19. 35/5
20. 39/5

**Question 16**

Charles has a piece of wood which is 25cm long. He cuts off 14cm piece

How many 3cm pieces can He make from that’s left

**Question 17**

Express 1250g in Kg

**Question 18**

What is 10.7 – 2.04 equal to

**Question 19**

As an improper fraction 7 4/5 is the same as…

1. Angle
2. Circle
3. Sector
4. factor

**Question 20**

What name is given to the shaded part?

[40 Marks]

**Section B**

**Question 21**

A. Write these numbers in expanded form

i) 239 743\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 899 965 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**[4]**

**Question 22**

Work out the following

1. 88 562 + 540 + 30 649 + 595 649
2. 46 512 ÷ 12
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[2]
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[2]
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[3]
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[3]
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[3]

[5]

**Question 23**

Complete the number sequence

1, 3, 6, 10, \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_ [3]

**Question 24**

1. 4 boys had stomach ache. The nurse gave each boy 3/5 of a

Teaspoon of medicine. How much medicine in total was given

To the four boys?

**Question 25**

A group of seven boys had the following scores in mathematics:

**38 75 40 45 25 30 45**

1. What is the mode?
2. Find the median score

**Question 26**

Work out:

1. 3/5 × ½
2. 2 7/10 – 1 4/5
3. 7 x 1 ½

**Question 27**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[2]
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[3]
3. On the space below construct triangle ABC. AB =5cm

ABC = 100° BC = 7cm [4]

1. What is the length of AC?
2. What is the size of angle CAB?

**Question 28**

Draw lines to match the following

|  |  |
| --- | --- |
| 1. Shape with 4 equal sides | Parallelogram |
| 1. Shape with 3 equal sides | Mixed number |
| 1. A whole number and a fraction | Square |
| 1. Fraction with numerator larger than denominator | Equilateral triangle |
| 1. Shape with 2 sets of parallel sides | Improper fraction |

[5]

**Question 29**

Mr Maseko has two sons Musa and Sipho. Sipho is the eldest son. He

Wants them to share E500-00 but the eldest son’s money would be

more than the younger son by E50

1. Calculate how much money Spho will get?
2. Calculate how much money Musa will get?
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[3]
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[3]
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[3]
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[2]
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[2]
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[2]
9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_[3]

**Question 30**

Sipho left home at 7:10am and took 55minutes to reach school

1. Write 7:10am in 24 hour time
2. At what time did he arrive at school?

**Question 31**

The grid below shows part of a seating plan at the hall

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 6 |  |  |  |  |  |  |  |
|  | 5 |  |  |  |  |  |  |  |
|  | 4 |  |  |  |  |  |  |  |
| second number | 3 | vusi |  | sipho | |  |  |  |
|  | 2 |  |  |  |  |  | buhle | |
|  | 1 |  |  |  | lungelo | |  |  |
|  | 0 |  |  |  |  |  | Charles |  |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 |  |
|  |  |  |  |  |  |  |  |  |

1. At what position is Buhle seating
2. Who is sitting at position (3,1)

**Question 32**

Grade 6 learners spend E3437 for producing 65bags of maize. If the

price per bag was sold at E155

1. Calculate the total money they got after selling all the bags
2. How much profit did they make on all the bags?