

AGGREGATE:

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TAIBAH JUNIOR SCHOOL

PRIMARY SEVEN 2022

TOPICAL TEST (WHOLE NUMBERS)

TERM TWO EXAMINATIONS

MATHEMATICS

TIME ALLOWED: 2 HOURS AND 30 MINUTES

PERCENTAGE:

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EMIS NUMBER

PERSONAL NO.

Index number:

Candidate's name:

Candidate's signature:

Stream: Pupil's number: **C22 / PNJ /**

Read the following instructions carefully:

1. This paper is made up of **two** sections **A** and **B**. **Section A** has **20 questions** (40 marks) and **section B** has **12 questions** (60 marks)
2. Answer **ALL** questions in this booklet. All working for sections **A** and **B must** be written in the spaces provided with a **very legible** and **neat** handwriting.
3. Use a **pen** with **blue ink** for writings and use a **pencil** for underlining, drawing and shading diagrams, tables and graphs.
4. Avoid **unnecessary** dirt, crosses and **changes of work** in your paper.
5. **No calculators** are allowed in the examination room.

SECTION		SCORE
A		
B		
TOTAL		

**TEACHER'S COMMENT TO
THE PUPIL:**



SECTION A (40 MARKS)

1. Work out: 6 **hundreds** + 5 **tens** + 7 **ones** = _____

2. Write 7,803,097 in **words**.

.....
.....

3. Write the place value of the digit **6** in the number 35**6**2**seven**.

4. Round off **370** to the nearest **hundred** using a **number line**.

5. Expand **1,547** using **powers of ten**.

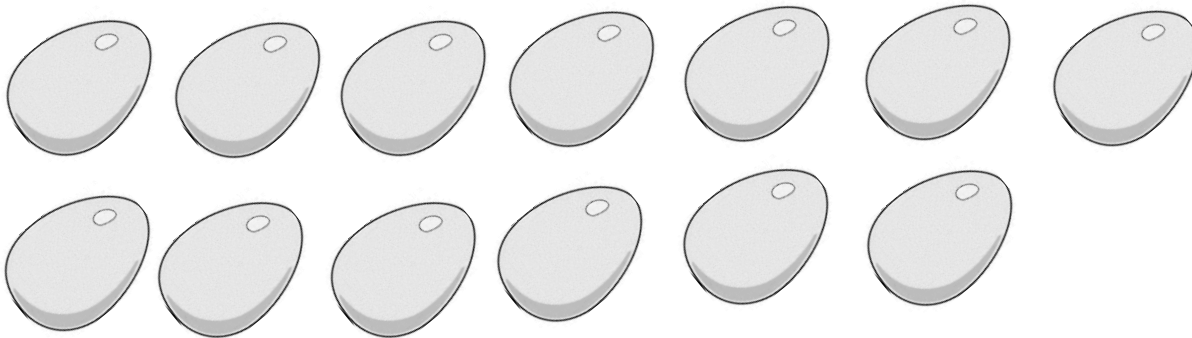
6. Find **all** the **values** of the digits in the number 83,047.



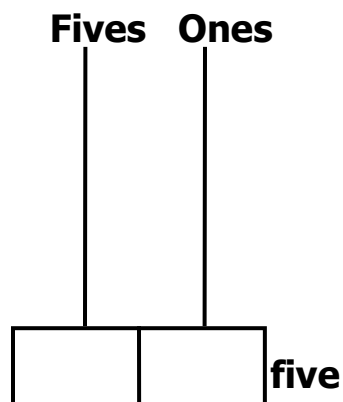
7. Convert 1011_{two} to **denary base**.

8. Express 5,600 in **scientific form**.

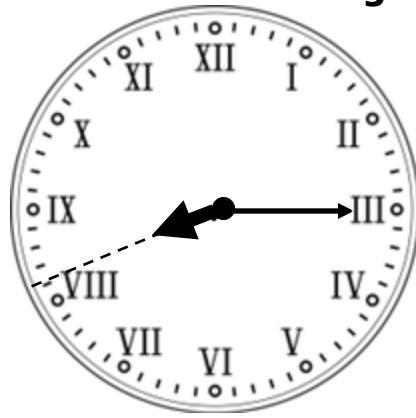
9. Below are the eggs Jonah bought from a shop. **Group** them in **fives** and write their number in **quinary system**.



10. Represent 42^{five} on the abacus below.



11. The clock face below shows the **morning time** for **taking tea** on a clock face.



Tell the time shown on the clock face.

12. Write in **figures**: 'Sixty thousand sixty three'.

13. Convert **294** to **Roman numerals**.

14. Kamura has **5** pens. Write his number of pens in **binary base**.

15. Complete the **addition Roman numeral** table below.

+	IV	VIII	III
II	VI	_____	V
V	_____	_____	_____



16. Find the **difference** between the **place values** of **3** and **5** in the in the number **263,512**.

17. Expand 32five using **values**.

18. Which number has been expressed as 1.24×10^4 ?

19. Find the **number** that has been expanded as below.

$$(9 \times 100\,000) + (1 \times 10\,000) + (3 \times 100) + (5 \times 10) + (2 \times 1)$$

20. Calculate the **quotient** of the **values** of the circled digits in the number below.

5(6)4(2)3



SECTION B (60 MARKS)

- 21.
- (a) A school has **CMLII** pupils. Of these, **CCCXXI** are boys and the rest are girls. Find the **number of girls** in **Hindu Arabic numerals**. **(04 marks)**

- (b) Simplify: 3.2×10^{-2} **(02 marks)**

- 22.
- (a) Work out:
$$\begin{array}{r} 101_{\text{two}} \\ \times 11_{\text{two}} \\ \hline \end{array}$$
 (02 marks)

- (b) If $22_y = 8_{\text{ten}}$, find the value of the unknown base **y**. **(03 marks)**



- 23.
- (a) Use the digits **4, 3** and **7** to find the **sum** of the **largest** and the **smallest** possible 3-digit numerals that **can be formed** from them. **(03 marks)**
- (b) **Round off** the **smallest** formed possible 3-digit numeral to the **nearest** ten. **(02 marks)**
24. Given the number **28,470**. Use it to answer the questions that follow.
- (a) Find the **value of 7**. **(01 mark)**
- (b) Work out the **value of 2**. **(01 mark)**
- (c) Calculate the **sum** of the **values of 2 and 7**. **(02 marks)**



25.

- (a) Convert **0.0734** to **standard form**.

(02 marks)

- (b) What number **has been expanded** to give:
 $(5 \times 10^5) + (9 \times 10^4) + (3 \times 10^2) + (4 \times 10^{-1})$

(03 marks)

26.

- (a) Change **23_{five}** to **binary system**.

(03 marks)

- (b) What is the **value of 3** in the number **23_{four}**?

(02 marks)



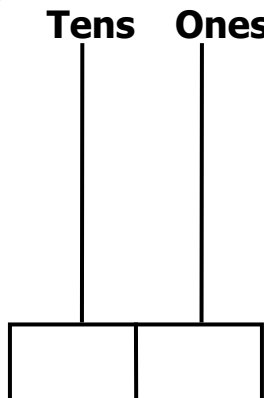
27. Work out the following:

(a)
$$\begin{array}{r} 111_{\text{two}} \\ + 10_{\text{two}} \\ \hline \end{array}$$
 (02 marks)

(b)
$$\begin{array}{r} 400_{\text{five}} \\ - 32_{\text{five}} \\ \hline \end{array}$$
 (03 marks)

28.

(a) Show 34_{five} on the **base ten** abacus below.



(03 marks)

(b) Given that: $1X0_{\text{five}} = 63_{\text{seven}}$, find the missing digit X .

(03 marks)



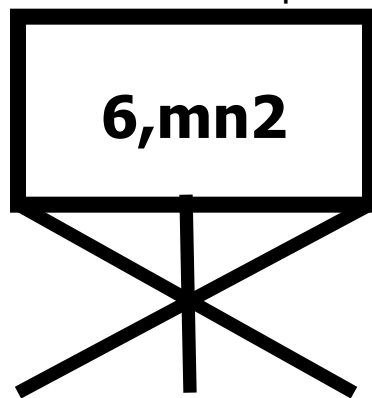
29. Complete the **place value table** below correctly.

(04 marks)

DIGIT	PLACE VALUE IN WORDS	VALUE
5	_____	_____
_____	Tens	70
8	_____	80,000
NUMERAL GIVEN		80,570

Show your working here.

30. A teacher wrote a **number** on the board as shown below and some of its digits were unknowns. Use it to answer the questions that follow.



(a) If $\frac{3}{8}$ of the value of **m** is 150, find the **value** of the digit **m**.

(02 marks)



- (b) Given that the **ratio** of the **values** of the digits **m** and **n** is **8:1** respectively, what is the **digit** represented by letter **n**.

(03 marks)

31. By how much is **MCMLIV** more than **DLXIX** in **Roman numerals**.

(05 marks)

32. Given that the **place value** of **9** is **K** and the place value of **6** is **hundreds** in a **certain number**. The **quotient** of the values of **9** and **6** in the same number is **150**. Write the **place value K** in **words**.

(05 marks)

THE END



