University of Bahrain
Bahrain Teachers College
TC2MA324: History of Mathematics
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Quiz 2

Name: _____Solution_____   ~~18~~ 13

8 pt

1. Fill the missing in the following table (no justification is necessary).

Decimal	Greek	Chinese
902	Ⲙ Β	⋾⋾⋾⋾ ‖
376	ⲧ ο ϛ	‖‖ ⊥ ⊤
$\frac{1}{381}$	ⲧ πα′	｜ fen zhi ‖‖⊥｜
$3\frac{4}{5}$	ⲅθ ε′	~~⃥~~ ⅲ fen zhi ‖‖‖‖
70000	ⳍ/Ⲙ	⊤⊤
581123	~~Ⲙ~~ ′εωⲗα Ⲙ χγ	☰ ⅲ — ｜ ⊤ ‖‖

2. Be side the lack of zero symbol, both the Greek and Rod Chinese numeration systems have disadvantages. Write one for each.

1 pt

Greek: Same as their own letter.

"hard to distinguish it from the words"

Chinese: "very length", has some ambiguity, e.g.,

70000 ⟶ 7 !

, They can't write big numbers

3 PG

3. Multiply 324 by 12 using the Greek way. What is the law you have used?   distributing law

$$\Upsilon K \delta \times \iota\beta = (\Upsilon + K + \delta) \times (\iota + \beta)$$

$$= (300 + 20 + 4)(10 + 2)$$

$$= 3000 + 600 + 200 + 40 + 40 + 8$$

$$= 3888 \quad = \, '\Upsilon \omega \pi \eta$$

3 ½ PG

4. Write whether the following statements are true in the Greek or Chinese civilization?

1. _____Chinese_____ They approximate π to be 3.1415926.

2. _____Greek_____ They formulated the Pythagorean theorem.

3. _____Chinese_____ They knew how to find normal magic square of order 4.

4. _____Chinese_____ They had the oldest proof of the Pythagorean theorem.

5. _____Chinese_____ Nine chapters was one of their book that contained their contribution to mathematics.

6. _____Greek_____ Euclid was one of their famous mathematician.

7. _____Greek_____ They are the first people to introduce the formal logic and axioms.

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