Worksheet: A Story of Numbers

IGCSE · Class 8 · Mathematics · 8 questions · 11 marks

Name: _____ Date: _____ Score: _____ / 11

Q1. Which of the following is the correct Roman numeral for 2999? *[1 mark]*

A) MMCMXCIX

B) MMMIX

C) MCMXCIX

D) MMDCCCCLXXXXVIIII

Q2. The landmark numbers of a base-7 number system are: *[1 mark]*

A) 7, 49, 343, 2401, …

B) 1, 7, 49, 343, …

C) 1, 7, 14, 21, …

D) 0, 7, 49, 343, …

Q3. Who codified the arithmetic of zero as a number in its own right, in 628 CE? *[1 mark]*

A) Al-Khwrizm+

B) Fibonacci

C) Aryabhata

D) Brahmagupta

Q4. Which number system had 1, 20 and 360 as its landmark numbers? *[1 mark]*

A) Egyptian

B) Mayan

C) Chinese rod

D) Mesopotamian

Q5. In the Egyptian number system, why can no symbol ever appear 10 or more times in a correctly written numeral? *[1 mark]*

A) Because the Egyptians had only nine symbols in total

B) Because the system uses place value, which limits each position to nine

C) Because ten identical symbols would be too difficult to draw

D) Because ten of any landmark make the next landmark, so they are exchanged for one symbol of the next size

Q6. The base-10 number 25 written as a base-5 numeral is: *[1 mark]*

A) 100

B) 25

C) 50

D) 31

Q7. Write 715 in Roman numerals. *[2 marks]*

Q8. In the base-5 system built in the chapter, how is 651 grouped into landmark numbers? *[3 marks]*