University of Bahrain Bahrain Teachers College TC2MA324: History of Mathematics Dr. Abdulla Eid Spring 2015



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Quiz 1

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

	Decimal	Egyptian	Babylonian	
	902	777711 11	< DD0 . 77	
ţ	5999		DD 5<000 <<<	707 707 700
	168,682	F 8888 222 VVVIII	<<< ▼ << ▼	
	1 27	00 AN 1111	0, 2 13 20 VV < VVV <<	
	801	22222222		

2. (a) Write 61 in the binary system.

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$$\frac{1}{32} \frac{1}{16} \frac{1}{8} \frac{1}{4} = \frac{1}{2}$$

$$\frac{1}{32} \frac{1}{16} \frac{1}{32} = \frac{1}{2}$$

$$\frac{1}{32} \frac{1}{16} \frac{1}{16} = \frac{1}{32}$$

$$\frac{1}{32} \frac{1}{16} \frac{1}$$

1.5

(b) Multiply 61 by 9 the same way as the Egyptian did.

3 6

 $61 \times \frac{1}{9} = 61 \times 0.6 \times 40$ $= 61 \times 400$ = 24,400 = 64640

0) 6 40 9) 1 x60 6 x60

JDV << DDD

VDV << DDD

3. Write whether the following sta

3. Write whether the following statements are true in the Egptian civilization or the Babylonian civilization.

1. They knew how to approximate π .

2. _____ Existed in the Mesopotamia region.

3. _____ Rhind Mathematical Papyrus is one of the few tablet that show their mathematical contribution.

4. ____ They knew how to write the natural numbers in base 2.

5. They don't have a zero symbol, nevertheless they had a sense of "nothingness".

Ancient Egyptian Symbols and their Hindu-Arabic values:

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1,000,000	100,000	10,000	1,000	100	10	1

Ancient Babylonian Symbols and their Hindu-Arabic values:

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10	1