FIRST SEMESTER FINAL TEST

Allotted Time: 30 minutes

I. PATTERNS AND ALGEBRA

1. Filling the missing numbers:

   a) 17 is _____ greater than 15.

   b) 30 is _____ greater than 25.

   c) 8 is _____ less than 59.

2. Choose the core of the following patterns:

   a) | J | R | R | J | R | R | J | R | R |

      The core is: RJR   or   JRR

   b) | R | J | J | J | R | J | J | J | R | J | J | J |

      The core is: RJJJ   or   JJRJ

3. Extend the number pattern. Then write the rule for the pattern :

a)

Figure	Number of Squares
1	4
2	11
3	18

Rule :
Start at ….. and …… …..
each time

b)

Figure	Number of Squares
1	7
2	11
3	15

Rule :
Start at ….. and …… …..
each time

4. Match each sequence with the sentence that describes it. This sequence....

A   ... increases and decreases.
B   ... increases by the same amount.
C   ... decreases by different amounts.
D   ... decreases by the same amount.

_____   21 , 19 , 15 , 13 , 9

_____   10 , 13 , 9 , 7 , 5

_____   19 , 17 , 15 , 13 , 11

_____   9 , 12 , 15 , 18 , 21

5.
The snow is 17 cm deep at 4 pm.
4 cm of snow falls each hour.
How deep is the snow at 9 pm?

Hour	Cm
pm	cm
pm	cm
pm	cm
pm	cm
pm	cm

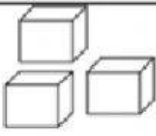The snow will be _____ cm deep at 9 pm.

II. NUMBER SENSE

1.   Choose the place value of the underlined digits

1<u>6</u>0 | thousands | hundreds | tens | ones |

<u>5</u>521 | thousands | hundreds | tens | ones |

2. Write the number for the given base ten blocks:

Thousands	Hundreds	Tens	Ones	Number
				_____

3. Write the number in expanded form (using <u>numerals</u>):

a) 2 886 = 2 000 + _____ + _____ + _____

4. Create the greatest possible number using these numbers. (Use each number once)

a) 3, 2, 7, 5   _____   b) 0, 5, 3, 2   _____   c) 1, 9, 4, 8 _____

5. Word problems
A. Bobby has 120 books. Kristi has 60 books.
    How many more books does Bobby have than Kristi?

☐ ☐ ☐ = ☐ books

B. Tim had 210 pennies in his bank. His dad gave him 65 more pennies.
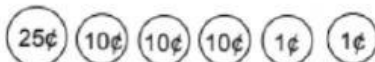   How many pennies does Tim have now ?

☐ ☐ ☐ = ☐ pennies

D. A bee has 6 legs. How many legs do 25 bees have?

☐ ☐ ☐ = ☐ legs

6. Count the coins and write the total amount

a)

(10¢) (10¢) (10¢) (5¢) (1¢) (1¢) (1¢)

total = _____ ¢

b)

(25¢) (10¢) (10¢) (10¢) (1¢) (1¢)

total = _____ ¢

7. Draw the extra coins

Kevin has 25¢. He wants to buy a pen for 35¢.

25¢ + (☐¢) (☐¢) = 35¢

8. Word problems

Tim paid $1.25 on a dog toy with 2 Toonies. How much change did Tim receive?

2 Toonies = _____ ¢

☐ ☐ ☐ = ☐ ¢

9. Round the following numbers to the nearest ten

a) 41 ≈ _____   c) 2835 ≈ _____

b) 177 ≈ _____   d) 763 ≈ _____

10. Round the following numbers to the nearest hundred

a) 397 ≈ _____   c) 2183 ≈ _____

b) 916 ≈ _____   d) 7705 ≈ _____