**HW #6** NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DUE \_\_\_\_\_\_\_\_

∑œ

FEEDBACK FROM TEACHER:

SHOW WORK PLEASE NEATER PLEASE WRITE TIME SPENT PLEASE CORRECT

LEVEL 3  *\_\_\_\_\_* *( √, √+, or √++)*

TIME SPENT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student feedback: (optional) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**LEVEL ONE**

Answer:



**#1**. Solve by drawing:

Draw , then cross out TWO sets of . *(cross out 2/3 once, and then do it again!)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **X** | **X** |  |  |  |  |  |  |  |  |  |
|  | **X** | **X** |  |  |  |  |  |  |  |  |  |  |

**Level Two**

#2. FIND THE SUM, using any method.

Answer



2 + 4 + 6 + 8 + 10 + ….. + 92 + 94 + 96 + 98 + 100 = \_\_\_\_\_\_\_



#3. Natalie has ¾ as much money as Annabelle. Allen has one dollar LESS than twice as much money as Natalie. Altogether the 3 people have $129. How much does Allen have?

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N |  |  |  |  |  |  |  |  |  |  |  | *129 + 1 = 130 for 13 units*  *130 ÷ 13 = 10 per unit*  *60-1 = 59* | | | | |
| An |  |  |  |  |  |  |  |  |  |  |  |
| Al |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Sentence: *Allen has…*



**Level 3**

#4. Susan is 39 years old. She is 3 times as old as her son. Find her age when, in the future, her son will be half as old as she.



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SU |  |  |  |  |  |  |  |  | *When the son has 2 units, Susan will have 4 units, and the son will be ½ her age.*  *Adding a unit adds 13 years.* | | | | | | | |
| SON |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Sentence:



#5. A tank containing some cubes was 4/5 filled with water. When all the cubes were removed, the water level was only ¼ of its original height. There were 3 liters of water left in the tank at that point.

1. What is the total capacity of the tank, in liters ? \_\_\_\_\_\_\_\_\_\_\_\_\_



1. If the volume of each cube was ½ of a liter,



how many cubes were there? \_\_\_\_\_\_\_\_\_\_\_\_



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  | *b) It would take SIX ½ liter cubes to equal 3 liters. (3 liters = one unit box) So 18 cubes to fill 3 unit boxes.* | | | | | | |
|  |  | **W** | **W** | **W** | **W** |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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**More Level 3** ☺ 2 pzl. Pts!! ☺ **ROMAN NUMERALS**

There are 3 basic principles for reading and writing Roman numerals:

|  |
| --- |
| I =1 |
| V =5 |
| X =10 |
| L =50 |
| C =100 |
| D =500 |
| M =1000 |

1. A letter can repeat its value that many times (XXX = 30, CC = 200, etc.). A letter can only be repeated a maximum of **three** times.

2. If one or more letters are placed **AFTER** another letter of **greater** value, **add** that amount.

VI = 6  *(5 + 1 = 6)*

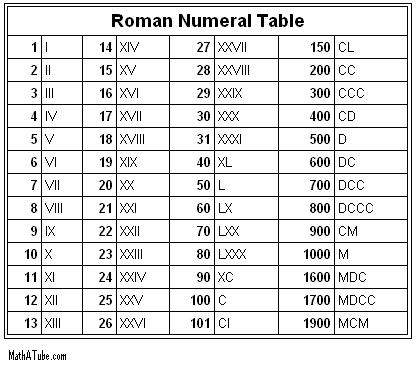
LXX = 70 *(50 + 10 + 10 = 70)*

MCC = 1200 *(1000 + 100 + 100 = 1200)*

3. If a letter is placed **BEFORE** another letter of **greater** value, **subtract** that amount.

IV = 4 *(5 – 1 = 4)*

XC = 90 *(100 – 10 = 90)*

CM = 900 *(1000 – 100 = 900)*

Write the correct

modern number next

to each Roman numeral:

1) XLIV =\_\_\_\_\_\_\_



2) XCII=\_\_\_\_\_\_\_



3) LXXIV=\_\_\_\_\_\_\_



4) CCLIX=\_\_\_\_\_\_\_



5) MCMLXIX=\_\_\_\_\_\_\_



6) MMIV=\_\_\_\_\_\_\_

