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

**HW #1** NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Trimester 2**

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FEEDBACK FROM TEACHER:

 SHOW WORK PLEASE NEATER PLEASE WRITE TIME SPENT PLEASE CORRECT

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

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

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

**LEVEL ONE**

$$ 3-1\frac{7}{8} =$$

#1. Draw three **8-peak** Toblerones.

Now cross out 1 and 7/8. Count what is left.



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| X | X | X | X | X | X | X |  |
| X | X | X | X | X | X | X | X |

$$ 2\frac{1}{8}-\frac{7}{8} =$$

#2. Draw two and one-eighth **8-peak** Toblerones.

Now cross out 7/8. Count what is left. Simplify.



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
|  |  | X | X | X | X | X | X |
| X |  |  |  |  |  |  |  |

**Level 2:**

#3. Alexander has twice as much money as Taryn. Carolyn has one dollar more than twice as much money as Alexander. Altogether the 3 people have $50. How much does Carolyn have?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A** |  |  |  |  |  |  |  | 50 – 1 = 49 for 7 units49 ÷ 7 = 7 per unit4 x 7 + 1 = 29 |
| **T** |  |  |  |  |  |  |  |
| **C** |  |  |  |  |  |  |  |

Answer: *Carolyn has $29.*

#4. The sum of 2 numbers is 86. The larger number is 2 less than 3 times as big as the smaller number. Find the smaller number.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| smaller |  |  |  |  |  |  |  | 86 + 2 = 88 for 4 units88 ÷ 4 = 22 per unit |
| larger |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Answer: *The smaller number is 22.*

**Level 3**

#6. Two-fifths of the vehicles in a parking lot are vans, and three-fifths are sedans. One-third of the sedans are white and one-quarter of the vans are white.

 If there are 36 white vehicles in the lot; then how many vehicles are there in total?



|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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*36 ÷ 3 = 12 vehicles per unit. 12 x 10 = 120. There are 120 vehicles in total.*

**More Level 3 ☺ 1½ pzl. Pts.**

CHALLENGE FUN: MAYAN NUMBERS!!

The Mayan civilization settled in Central America from about 2000 BCE. They used a highly developed base-20 number system to study astronomy, medicine, and make calendar calculations. (They were able to measure the length of the solar year to a far higher degree of accuracy than that used in Europe at the time!)

Here are their first 20 numbers:

Example:

 *Base – 20 system:* 125 172

 6 twenties and 5 ones 8 twenties and 12 ones

 - - - - -

 - - - - -

 20’s Place

 - - - - -

 1’s Place

CHALLENGE PROBLEMS

 156 171 195

 - - - - -

 - - - - -

 - - - - -

*7 twenties + 8 twenties + 9 twenties +*

*16 ones 11 ones 15 ones*