## Study Guide: Customary System, Metric System, \& Elapsed Time



## Question 1: Complete the table

| HOURS | MINUTES | SECONDS |
| :---: | :---: | :---: |
| 3 |  |  |
|  | 420 |  |
|  |  | 36,000 |

Bigger to Smaller MULTIPLY
Smaller to Bigger DIVIDE
Hours to Minutes - multiply
Seconds to Minutes - divide
Minutes to Seconds - multiply
Minutes to Hours -divide

## Question 2: Solve (Hint: How many hours are in a day?)

Joseph spent 28 days hiking the Rocky Mountains. How many hours did he spend hiking the mountains?

Question 3: Solve (Hint: Change all the distances into inches first, then compare them.)
In a long jump, Abby can jump 52 inches. Salina can jump 3 feet 6 inches, and Maya can jump 1 yard, 1 foot and 2 inches .
Who can jump the farthest?

## Question 4: <br> (Hint: Each line on the number line represents 15 minutes)

Julius is going to see a double feature (two movies). The first movie begins at 1 PM. Then there will be a 15 minute break. The second movie begins at 3:30 PM. Use this information to help answer the questions below.
A. Draw a visual model (number line) to display the information given. (Label all the lines)

B. How long is the first movie: $\qquad$ hours $\qquad$ $\min$
C. Julius left the movie theater at 4:45 PM. How long was the second movie in hours and minutes: $\qquad$ hrs $\qquad$ $\min$

## Question 5: True or False?

| $1,500 \mathrm{lb}>1 \mathrm{~T}$ | True | False |
| :--- | :--- | :--- |
| $45 \mathrm{oz}<3 \mathrm{lb}$ | True | False |
| $64 \mathrm{oz}=3 \mathrm{lb}$ | True | False | | Don't guess! <br> Change one of the measurements to <br> match the other side. Either multiply one <br> side or divide one side, get them to be <br> the same unit of measure so that you <br> can compare them. |
| :---: |

(Hint: Know your abbreviations! If not, use the front page of this study guide)

## Question 6: Complete the table:

A fish tank holds 20 gallons of water. Stephan is using a 1-pint container to fill the tank. Complete the table to help you find the number of pints of water Stephan will need to fill the tank.


Do you know how many pints are in ONE gallon? If not, draw the Big G or look at the front of your study guide.

Once you know, MULTIPLY the gallons by the number of pints per gallon.
Bigger to Small ---- MULTIPLY

Question7: Complete the table

| Kilograms | Grams | Milligrams |
| :---: | :---: | :---: |
|  |  | 350 |
| 16 | 7 |  |
|  |  |  |

## Question 8: Solve

An art teacher has a roll of paper that is $\mathbf{8}$ meters long. She needs to cut it into pieces. Each piece needs to be 1 decimeter long.

Part A: How many pieces of paper will she have?
King Henry Doesn't Usually Drink Chocolate Milk
KH D U D C M

Part B: Explain how you found your answer using knowledge of the metric system.

## Question 9: True or False?

Ms. Williams bought $\mathbf{4}$ liters of water, $\mathbf{3 , 7 5 0}$ milliliters of soda, and $\mathbf{2 . 4 5}$ liters of juice. Using this information answer true or false to the statements below.

Ms. Williams bought 400 mL of water.

Ms. Williams bought 3.75 L of soda

Ms. Williams bought 2,450 mL of juice

True False

True False

True False

## Don't guess!

KHDUDCM
Change 4 liters into milliliters. Change 3,750 milliliters into liters.
Change 2.45 liters into milliliters.
If they match its True, if not its False

