

Hieroglyphic Cryptarithmic

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Answer: XXXXXXXXXX

The clues are all cryptic crossword clues. The words before the commas all clue to a definition of the word, while the remaining words are the cryptic part of the clue.

Cryptic clue	Explanation	Answer
Peaceful, inside a magical moment.	magiCALMoment	CALM
A bag, initially sold as cool kit.	S(old)A(s)C(ool)K(it)	SACK
Young animal, first made in a chemist's abbreviated workplace.	M(ade) in LAB	LAMB
Snakes, boast without end.	BOAS(t)	BOAS
Like a veil, tidying up pottery material.	Anagram CLAY	LACY
Mothers, with cardamoms abandoning vehicle and father.	CARDAMOMS - CAR - DA	MOMS
Stares, at an English bathroom in front of an abbreviated Kansas.	LOO + KS	LOOKS
Unsteady, stone music style with funny ending.	Definition of "stone" and a "music style" = ROCK + (funn)Y	ROCKY

This gives us a set of cryptarithmic equations.

$$\begin{array}{r} \text{BOAS} \\ + \text{BOAS} \\ \hline \text{LACY} \end{array}$$

$$\begin{array}{r} \text{CALM} \\ + \text{SACK} \\ \hline \text{LAMB} \end{array}$$

$$\begin{array}{r} \text{MOMS} \\ + \text{LOOKS} \\ \hline \text{ROCKY} \end{array}$$

Given the extra information $R = 8$ and $M = B * B$, using some mathematical logic, we can find that the solution is:

$0 = A, 1 = C, 2 = Y, 3 = B, 4 = K, 5 = O, 6 = S, 7 = L, 8 = R, 9 = M.$

$$\begin{array}{r} 3506 \\ + 3506 \\ \hline 7012 \end{array}$$

$$\begin{array}{r} 1079 \\ + 6014 \\ \hline 7093 \end{array}$$

$$\begin{array}{r} 9596 \\ + 75546 \\ \hline 85142 \end{array}$$

(Alternatively, one might notice that the images map to certain hieroglyphic symbols that correspond to the alphabet. However, this is not necessary to solve the puzzle, and if one did notice this and circumvent the cryptic puzzles, then that's a valid solution too.)

The mapping between letters, numbers, and images is:

- $A = 0 =$ 
- $B = 3 =$ 
- $C = 1 =$ 
- $K = 4 =$ 
- $L = 7 =$ 
- $M = 9 =$ 
- $O = 5 =$ 
- $R = 8 =$ 
- $S = 6 =$ 
- $Y = 2 =$ 

Translating the final equation to English letters, we get:

$$\begin{array}{r} 18554 \\ + 610803 \\ \hline 629357 \end{array} \quad \text{----->} \quad \begin{array}{r} \text{CROOK} \\ + \text{SCARAB} \\ \hline \text{SYMBOL} \end{array}$$

This translates to **SYMBOL**.