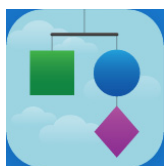


# Promoting Independent Learners and Creative Collaboration through Mathematical Puzzles



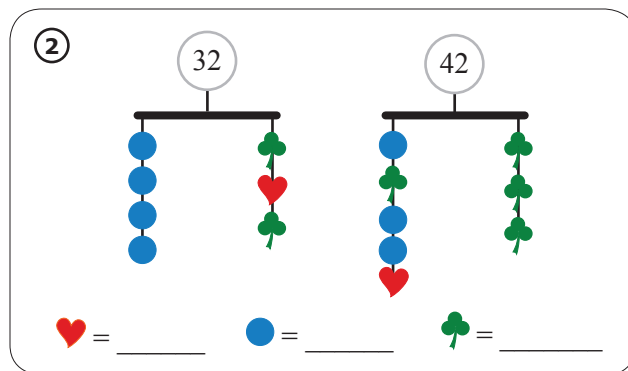
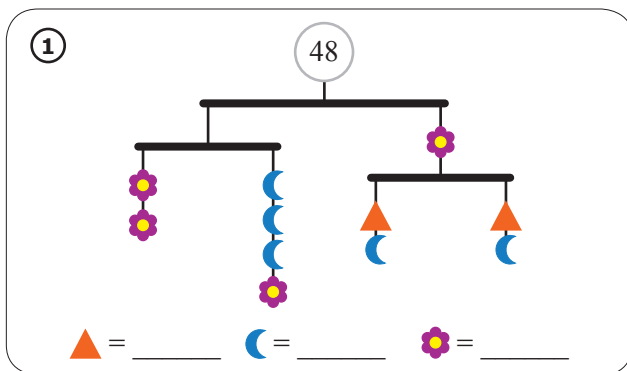
## SolveMe.edc.org

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MassMATE Conference; Tuesday 5/26/2015

### Mobile Puzzles



### Who Am I? Puzzles (prototype version at [solveme.edc.org/whoami](http://solveme.edc.org/whoami))

Who Am I?  $t$   $u$

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- The product of my digits is 7.
- The sum of my digits is 8.
- My units digit is greater than my tens digit.

Who Am I?  $h$   $t$   $u$

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- I am a multiple of 10.
- My hundreds digit is one more than my tens digit.
- The sum of my three digits is 7.

Who Am I?  $h$   $t$   $u$

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- I am odd.
- $u > t$
- My hundreds digit is prime.
- $t = 2h$
- Two of my digits are square numbers.

Who Am I?  $h$   $t$   $u$

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- $t$  is a perfect square.
- $h - u = 0$
- The sum of  $h$  and  $u$  is 13 more than  $t$ .
- I am divisible by 3.

### MysteryGrid Puzzles (prototype version at [solveme.edc.org/mysterygrid](http://solveme.edc.org/mysterygrid))

MysteryGrid **1, 3, 5, 7**

21, •	7, •		15, +
	25, •		
2, -			
12, +		3, ÷	

MysteryGrid **0.1, 0.2, 0.3, 0.4**

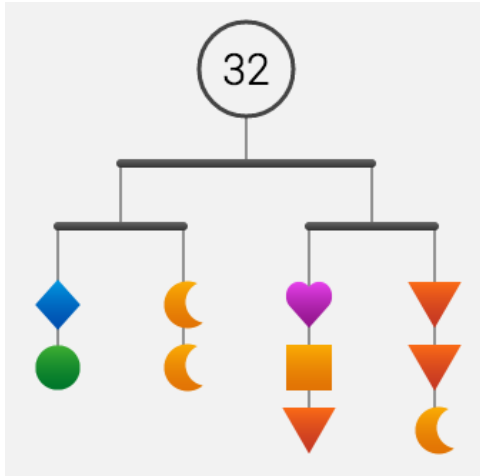
.6, +		.08, ×	
	.016, ×	3, ÷	
.12, ×			.5, +
	.02, ×		

MysteryGrid  **$a^{-1}, a, a^2, a^3$**

$a^3, •$	$a, •$	$a^6, •$	
$a^4, •$		$a^5, •$	1, •
$a, •$			

# Three-Player Collaborative Game

Player 1



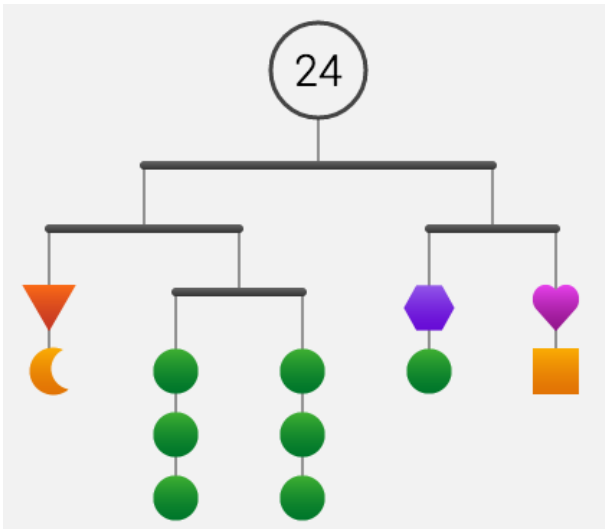
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Player 2



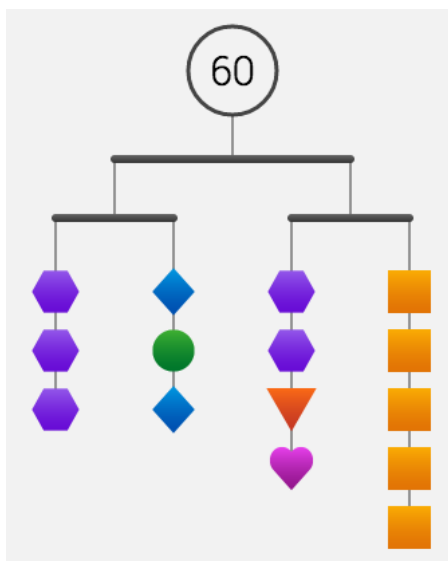
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Player 3



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