## Ratios & Proportions Mini-Mystery **CLUE** Sheet

## Name:\_

Tu in tu int		
1) Solve for the variable in both proportions: $\frac{5}{6} = \frac{G}{24} \qquad \frac{1}{7} = \frac{J}{84}$	2) The suspect played a weight- guessing game. The scale is rigged so that 1 actual pound shows up on the scale as 0.8 pounds. If the scale shows 104 pounds when the suspect steps on it, how much do they actually weigh? (Fill in the rest of the proportion and solve.)	<ol> <li>The suspect took a selfie with a clown on stilts. The ratio of the suspect's height to the clown's height is 4:7. If the clown is 112 inches tall, how tall is the suspect? (Write a proportion and solve.)</li> </ol>
The name of the suspect starts with the same letter as the proportion with the <b>greater</b> solution. Which has the greater solution: G or J?	$\frac{actual \ weight}{scale \ weight}  \frac{1}{0.8} = -$	
Suspect's Name Starts With:	Suspect's Weight:	Suspect's Height:
You're almost there! The last clue yo	u need is the suspect's favorite hobb n each answer. Then, unscramble the \$2.32 per Drink 2 tickets for \$13	y. Solve problems 4 - 10 and use the
You're almost there! The last clue yo Code Cracker to match a letter with	u need is the suspect's favorite hobb n each answer. Then, unscramble the	y. Solve problems 4 - 10 and use the letters to reveal the final clue! 2 Bags for \$3.50 6) If the suspect spent \$32.50 o
You're almost there! The last clue yo Code Cracker to match a letter with \$4.20 for 3 Dogs 4) What is the cost per corn dog	u need is the suspect's favorite hobb n each answer. Then, unscramble the \$2.32 per Drink 2 tickets for \$13 5) How many bags of popcorn	<ul> <li>y. Solve problems 4 - 10 and use the letters to reveal the final clue!</li> <li>2 Bags for \$3.50</li> <li>6) If the suspect spent \$32.50 o tickets, how many tickets were purchased?</li> <li>Solution:</li> </ul>

Solution:	Solution:	Solution:
10) If the suspect spent \$10.50 on popcorn, how many bags were purchased?	Use the <b>Code Cracker</b> to match a letter with each answer on 4–10. <b>Write the letters here:</b>	SUSPECT'S IDENTITY:
Solution:	Unscramble to find the Suspect's Favorite Hobby:	

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## Name:

Unscramble to find the Suspect's Favorite Hobby:

purchased?

Solution:

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1) Solve for the variable in both proportions: $\frac{5}{6} = \frac{G}{24} \qquad \frac{1}{7} = \frac{J}{84}$ The name of the suspect starts with the same letter as the proportion with the <b>greater</b> solution. Which has the greater solution: G or J?	2) The suspect played a weight- guessing game. The scale is rigged so that 1 actual pound shows up on the scale as 0.8 pounds. If the scale shows 104 pounds when the suspect steps on it, how much do they actually weigh? (Fill in the rest of the proportion and solve.) $\frac{actual weight}{scale weight} = \frac{1}{0.8} = -$	3) The suspect took a selfie with a clown on stilts. The ratio of the suspect's height to the clown's height is 4:7. If the clown is 112 inches tall, how tall is the suspect? (Write a proportion and solve.)
Suspect's Name Starts With:	Suspect's Weight:	Suspect's Height:
4) What is the cost per corn dog (unit rate)?	<ul> <li>sech answer. Then, unscramble the</li> <li>\$2.32 per Drink</li> <li>2 tickets for \$13</li> <li>5) How many bags of popcorn can be bought with \$5.25?</li> </ul>	<ul> <li>2 Bags for \$3.50</li> <li>6) If the suspect spent \$32.50 on tickets, how many tickets were purchased?</li> </ul>
Solution:	Solution:	Solution:
7) If the suspect bought 3 lickets with a \$20 bill, would there be enough change left over to buy a drink?	8) How much does 7 bags of popcorn cost?	dogs, how many were purchased?
Solution:	Solution:	Solution:
10) If the suspect spent \$12.82 on 1 drink and some popcorn, how many bags of popcorn were	Use the <b>Code Cracker</b> to match a letter with each answer on 4–10. <b>Write the letters here:</b>	SUSPECT'S IDENTITY:

