


# Math 6 - Unit 1: Number System Fluency

Get a Clue (Ratios & Rates)

Name: \_\_\_\_\_

Class Period: 1 2 3 4 Date: \_\_\_\_\_

<p><b>Who?</b></p> <p>Monica Chandler Joey Phoebe Ross Rachel Gunther Mr. Geller</p>	<p>1) If it costs \$10 for 3 pounds, how much will it cost for 39 pounds?</p>	<p>2) Which rate is equivalent to 15 movies in 10 days? a) 15 movies in 1 day b) 1 movie in 15 days c) 30 movies in 20 days</p>	<p>3) Express the rate as a unit rate in two ways. 5 feet in 10 minutes.</p>						
<p><b>Where?</b></p> <p>Central Perk Apartment Hospital Restaurant Bank Vestibule England San Deigo Zoo Airport</p>	<p>4) Express the rate as a unit rate in two ways. 10 feet in in 5 minutes</p>	<p>5) Find the unit rate: \$3.60 for 9 cookies</p>	<p>6) Which rate is equivalent to 679 tickets sold in 7 days? a) 388 tickets in 4 days b) 495 tickets in 5 days c) 772 tickets in 8 days</p>						
<p><b>What?</b></p> <p>Turkey Foosball Table Picture Frame Guitar Key Purple Door Coffee Cup Prom Dress</p>	<p>7) Find the unit rate: \$12 for 6 cookies.</p>	<p>8) If it costs \$5 for 2 centimeters, how much will 12 centimeters cost?</p>	<p>9) What numbers could complete the following ratio table?</p> <table border="1" data-bbox="1206 873 1438 974"> <tbody> <tr> <td>1</td> <td>7</td> <td></td> </tr> <tr> <td></td> <td>14</td> <td>48</td> </tr> </tbody> </table>	1	7			14	48
1	7								
	14	48							
<p><b>What?</b></p> <p>Turkey Foosball Table Picture Frame Guitar Key Purple Door Coffee Cup Prom Dress</p>	<p>10) Kasey read 12 books in 6 weeks. What is the unit rate of books per week?</p>	<p>11) If there are 7 pink balloons for every 12 blue balloons, how many pink balloons would there be if there are 36 blue balloons?</p>	<p>12) Which is the better buy? Product A: \$15 for 3 oz. Product B: \$20 for 5 oz.</p>						
<p><b>What?</b></p> <p>Turkey Foosball Table Picture Frame Guitar Key Purple Door Coffee Cup Prom Dress</p> 	<p>13) Who drove faster? Andrew: 20 miles in 4 hours Sydney: 240 miles in 6 hours</p>	<p>14) There are 2 Auburn Fans for every 3 Alabama fans. Write the ratio of Alabama fans to Auburn fans in three ways.</p>	<p>15) Which is the better buy? Product D: \$2.40 for 6 items Product E: \$5.60 for 8 items</p>						
	<p>16) There are 5 Tennessee fans for every 7 Georgia fans. Write the ratio of Tennessee fans to Georgia fans in three ways.</p>	<p>17) Find the unit rate: \$11 for 4 cookies</p>	<p>18) What numbers could complete the following ratio table?</p> <table border="1" data-bbox="1206 1604 1438 1705"> <tbody> <tr> <td>2</td> <td></td> <td>28</td> </tr> <tr> <td>3</td> <td>9</td> <td></td> </tr> </tbody> </table>	2		28	3	9	
2		28							
3	9								
	<p>19) If it costs \$12 for 6 square feet, how much will it cost for 3 square feet?</p>	<p>20) If there are 3 blue marbles for every 5 green marbles, how many green marbles would you have if you have 27 blue marbles?</p>	<p>21) An animal shelter recorded 24 puppies adopted in 4 days, what is the unit rate of puppies per day?</p>						

**Who?** \_\_\_\_\_ **Where?** \_\_\_\_\_ **What?** \_\_\_\_\_

Find your answers below to eliminate people, places and things to determine who did the crime, where they did it and what they did it with.

<p>Monica 2 minutes per foot <math>\frac{1}{2}</math> feet per minute</p>	<p>Chandler c</p>	<p>Joey 6, 42</p>
<p>Phoebe e</p>	<p>Ross \$6</p>	<p>Rachel \$2.75 per cookie</p>
<p>Gunther b</p>	<p>Mr. Geller 2 books per week</p>	<p>Central Perk \$0.40 per cookie</p>
<p>Apartment 2, 24</p>	<p>Hospital a</p>	<p>Restaurant 3:2, 3 to 2, <math>\frac{3}{2}</math></p>
<p>Bank Vestibule \$2 per cookie</p>	<p>England \$130</p>	<p>San Diego Zoo 2:3, 2 to 3, <math>\frac{2}{3}</math></p>
<p>Airport 2 feet per minute <math>\frac{1}{2}</math> minute per foot</p>	<p>Turkey d</p>	<p>Foosball Table Andrew</p>
<p>Picture Frame 45</p>	<p>Guitar 21</p>	<p>Key 6 puppies per day</p>
<p>Purple Key 5:7, 5 to 7, <math>\frac{5}{7}</math></p>	<p>Coffee Cup Sydney</p>	<p>Prom Dress \$30</p>