Math 6 – Unit 1: Number System Fluency

Get a Clue (Ratios & Rates)

Name: _____

Class Period: 1   2   3   4   Date: _____

Who?

Monica
Chandler
Joey
Phoebe
Ross
Rachel
Gunther
Mr. Geller

Where?

Central Perk
Apartment
Hospital
Restaurant
Bank Vestibule
England
San Deigo Zoo
Airport

What?

Turkey
Foosball Table
Picture Frame
Guitar
Key
Purple Door
Coffee Cup
Prom Dress

---

1) If it costs $10 for 3 pounds, how much will it cost for 39 pounds?

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

3) Express the rate as a unit rate in two ways.
5 feet in 10 minutes.

4) Express the rate as a unit rate in two ways.
10 feet in in 5 minutes

5) Find the unit rate:
$3.60 for 9 cookies

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

7) Find the unit rate:
$12 for 6 cookies.

8) If it costs $5 for 2 centimeters, how much will 12 centimeters cost?

9) What numbers could complete the following ratio table?

1	7	
	14	48

10) Kasey read 12 books in 6 weeks. What is the unit rate of books per week?

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?

12) Which is the better buy?
Product A: $15 for 3 oz.
Product B: $20 for 5 oz.

13) Who drove faster?
Andrew:
20 miles in 4 hours
Sydney:
240 miles in 6 hours

14) There are 2 Auburn Fans for every 3 Alabama fans. Write the ratio of Alabama fans to Auburn fans in three ways.

15) Which is the better buy?
Product D: $2.40 for 6 items
Product E: $5.60 for 8 items

16) There are 5 Tennessee fans for every 7 Georgia fans. Write the ratio of Tennessee fans to Georgia fans in three ways.

17) Find the unit rate:
$11 for 4 cookies

18) What numbers could complete the following ratio table?

2		28
3	9	

19) If it costs $12 for 6 square feet, how much will it cost for 3 square feet?

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?

21) An animal shelter recorded 24 puppies adopted in 4 days, what is the unit rate of puppies per day?

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.

Monica 2 minutes per foot ½ feet per minute	Chandler c	Joey 6, 42
Phoebe e	Ross $6	Rachel $2.75 per cookie
Gunther b	Mr. Geller 2 books per week	Central Perk $0.40 per cookie
Apartment 2, 24	Hospital a	Restaurant 3:2, 3 to 2, $\frac{3}{2}$
Bank Vestibule $2 per cookie	England $130	San Diego Zoo 2:3, 2 to 3, $\frac{2}{3}$
Airport 2 feet per minute ½ minute per foot	Turkey d	Foosball Table Andrew
Picture Frame 45	Guitar 21	Key 6 puppies per day
Purple Key 5:7, 5 to 7, $\frac{5}{7}$	Coffee Cup Sydney	Prom Dress $30