

MasterMath

Name _____

Ratios and Rates

Date _____

1. Write these ratios as a fraction in simplest form

| ratio | fraction |
|---------|----------|
| 1 to 3 | 1/3 |
| 3 to 1 | 3 |
| 3 : 1 | 3 |
| 15 : 30 | 1/2 |

| ratio | fraction |
|----------------------|----------|
| 8 boys to 4 girls | 2 |
| 16 hits : 48 at bats | 1/3 |
| 125 miles : 2 hours | 62 1/2 |
| 12 right : 6 wrong | 2 |

| ratio | fraction |
|--------------|----------|
| 1/4 : 1/8 | 2 |
| \$5 : \$2.50 | 2 |
| 6 to 2 | 3 |
| 4 to 10 | 2/5 |

2. Find the unit rate

| | unit rate |
|-------------------------|----------------|
| \$16 in 4 hours | \$4/hr |
| 32 hits in 96 at bats | 1/3hits/at bat |
| 450 miles on 15 gallons | 30 mpg |
| \$1.20 for 8 oz. | \$.15/oz |
| 6 cans for \$1.56 | 3.85cans/\$1 |

| | unit rate |
|-------------------------|----------------|
| 100 yards in 12 seconds | 8.33 yds / sec |
| 10 hours for \$25 | .4 hrs / \$1 |
| 16" in 16 months | 1"/mo |
| 2200' in 11 seconds | 200'/sec |
| 200 calories in 8 oz. | 25cal/oz |

3. Determine each unit rate



| pack | unit rate |
|---------|-----------|
| 2 ball | \$1.25 |
| 3 ball | \$1.60 |
| 12 ball | \$1.00 |

4. Over a recent 10 year period, the population of Florida increased from 12,938,000 to 15,982,000. What was the growth per year?

304,400/year

5. Your family took a trip to Colorado. On the 1st day, you traveled 450 miles in 10 hours. On the 2nd day, you traveled 300 miles in 6 hours. For the 2 days of driving, what was your average miles per hour?

46.875 mph

6. You can buy a large, 32 oz bottle of orange juice for \$4.80, or a smaller, 18 oz bottle for \$3.60. What is the unit rate of each?

| size | unit rate |
|--------|-----------|
| 18 oz. | .20 |

32 oz.

.15