Name_____

## CALCULATING UNIT RATES #1-KEY

**Directions**: One of the most reliable ways to find a *unit rate* is by setting up and solving a proportion. Find the *unit rates* for each of the situations below. For this worksheet, the proportions have already been set up for you.

| PROPORTION | EQUATION | SOLUTION |
|---|---|---|
| 1) $\dfrac{13 \text{ points}}{\frac{1}{2} \text{ game}} = \dfrac{x}{1 \text{ game}}$ | $\dfrac{1}{2}x = 13$ | 1) <u>26 points/game</u> |
| 2) $\dfrac{\$7}{\frac{1}{3} \text{ hour}} = \dfrac{x}{1 \text{ hour}}$ | $\dfrac{1}{3}x = 7$ | 2) <u>$21/hour</u> |
| 3) $\dfrac{2 \text{ laps}}{\frac{1}{4} \text{ minute}} = \dfrac{x}{1 \text{ minute}}$ | $\dfrac{1}{4}x = 2$ | 3) <u>8 laps/minute</u> |
| 4) $\dfrac{3 \text{ miles}}{\frac{1}{5} \text{ minute}} = \dfrac{x}{1 \text{ minute}}$ | $\dfrac{1}{5}x = 3$ | 4) <u>15 miles/minute</u> |
| 5) $\dfrac{6 \text{ degrees}}{\frac{2}{3} \text{ day}} = \dfrac{x}{1 \text{ day}}$ | $\dfrac{2}{3}x = 6$ | 5) <u>9 degrees/day</u> |
| 6) $\dfrac{5 \text{ books}}{\frac{2}{5} \text{ month}} = \dfrac{x}{1 \text{ month}}$ | $\dfrac{2}{5}x = 5$ | 6) <u>12.5 books/month</u> |
| 7) $\dfrac{9 \text{ gallons}}{\frac{3}{4} \text{ hour}} = \dfrac{x}{1 \text{ hour}}$ | $\dfrac{3}{4}x = 9$ | 7) <u>12 gallons/hour</u> |
| 8) $\dfrac{12 \text{ miles}}{\frac{4}{5} \text{ hour}} = \dfrac{x}{1 \text{ hour}}$ | $\dfrac{4}{5}x = 12$ | 8) <u>15 miles/hour</u> |
| 9) $\dfrac{6 \text{ calls}}{\frac{1}{10} \text{ day}} = \dfrac{x}{1 \text{ day}}$ | $\dfrac{1}{10}x = 6$ | 9) <u>60 calls/day</u> |