NAME: $\qquad$ PERIOD: $\qquad$ DATE: $\qquad$
FIND THE UNIT RATE ROUND EACH ANSWER TO THE NEAREST TENTH.

1. Type 800 words in 12 minutes
46.67 words/min
2. A $10-\mathrm{lb}$ bag of cherries for $\$ 33.49$

$$
13.35 / 1 \text { pound }
$$

5. 3500 calories for 6 servings of pie

$$
583.3 \text { cals/I serving }
$$

7. 24 senior citizens in 12 RVs

$$
\begin{aligned}
& 24 \text { senior citizens in } 12 \text { RVs } \\
& 2 \text { RV }
\end{aligned}
$$

WHICH IS THE BETTER BUY?
8. A $12.5-\mathrm{oz}$. bag of Doritos for $\$ 3.79$ or a $3-\mathrm{oz}$. bag for $\$ 1.00$.
$\$ 0.30 \quad 0.33$
12.5 oz bagis the better deal.
9. 12 bars of soap for $\$ 10.00$ or 5 bars of soap for $\$ 4.00$. $+0.83$
5 bars $/ \mathrm{r} 4$ is the better deal
10. A box of 84 penguins for $\$ 13,597$ or a bag of 50 penguins for $\$ 795.95$.

$$
161.87
$$

Bag of 50 penguins is the better deal
FOR EACH PROBLEM BELOW, FIND THE UNIT RATE, THEN USE THE UNIT RATE TO ANSWER THE QUESTION.
11. Jesus bought 3 pairs of jeans for $\$ 71.40$. How much would he need to pay for 8 pairs of jeans?

$$
\frac{71.40}{3 \text { pairs }}=\frac{23.80}{1 \text { pair }} \times 8=\frac{1190.40}{8 \text { paiks }}
$$

12. Morgan scored 41 points in 3 games. How many points would you expect him to make in an 11-game season.

$$
\frac{41 \text { points }}{3 \text { game }}=\frac{13.67 \text { pts }}{1 \text { game }} \times 11=\frac{150.3 \text { pts }}{11 \text { games }}
$$

USING THE UNIT RATES GIVEN, CONVERT THEM INTO THE DECRIED UNITS OF MEASUREMENT.

$$
\begin{aligned}
& \text { 13. } 55 \text { miles per hour }= \\
& \frac{5 S_{\mathrm{mi}}}{1 \mathrm{hr}} \times \frac{1 \mathrm{hR}}{60 \mathrm{~min}}=\frac{5 \mathrm{~S} \mathrm{mi}}{60 \mathrm{~min}}=0.92 \mathrm{mi} / \mathrm{min} \\
& \text { 14. } 6 \text { feet per minute }=\frac{1 \mathrm{mik}}{6 \mathrm{fect}} \\
& \frac{\text { feet per second }}{60 \mathrm{sec}}=\frac{6 \mathrm{ft}}{60 \mathrm{sec}}=\frac{0.1 \mathrm{ft}}{1 \mathrm{sec}}
\end{aligned}
$$

$$
\begin{aligned}
& 15.45 \mathrm{miles} / \mathrm{hour}= \\
& \frac{45 \mathrm{mi}}{1 \mathrm{hk}} \times \frac{5,286 \mathrm{ft}}{1 \mathrm{mi}} \times \frac{\mathrm{lhk}}{3600 \mathrm{sec}} \mathrm{fecond} \\
& 3600 \mathrm{sec}
\end{aligned}=\frac{237,600 \mathrm{ft}}{36 \mathrm{ft} / \mathrm{sec}}
$$

$$
\frac{8 \text { gat }}{1 \text { bo bk }} \times \frac{4 \text { pts }}{1 \text { gt }} \times \frac{2 \mathrm{gtts}}{1 \mathrm{gatl} / \mathrm{min}} \times \frac{1 \mathrm{hkk}}{60 \mathrm{~min}}=\frac{64 \text { pints }}{60 \mathrm{~min}}=\frac{1.07 \mathrm{pts}}{1 \mathrm{~min}}
$$

