$$
\frac{22}{23}
$$

Express each rate as a unit rate.

1. $\$ 50$ for 4 days work
2. 3 feet of snow in 5 hours
$\$ 12.50$ per day
0.6 ftperh .

$$
\begin{aligned}
& \frac{50}{4 \text { dags } \div 4} \div \frac{412.50}{1 \text { dag }} \quad \frac{3 \mathrm{ft}}{5 \mathrm{hrs}} \div 5=50.6 \mathrm{lhr} \\
& \begin{array}{l}
12.50 \\
4 \longdiv { 5 0 . 0 0 } \\
\frac{-44}{10} \\
\frac{-8}{20} 0
\end{array} \\
& \begin{array}{c}
0.6 \\
5 \longdiv { 3 . 0 0 } \\
\frac{30}{0}
\end{array} \\
& 2
\end{aligned}
$$

$$
\begin{array}{lc}
\frac{\$ 22 \div 5}{5 d \div 5}=\frac{\$ 4.40}{1 \text { dozen donuts }} & \frac{73.45 \div 13}{13 \mathrm{hr} \div 13}=\frac{\$ 5.65}{1 \mathrm{hr}} \\
\frac{04.4}{5 \sqrt[22.00]{20}} & \\
\frac{-20}{20} & 13 \sqrt{73.45} \\
\frac{20}{0} & \frac{-65 \downarrow}{84} \downarrow \\
& \frac{78}{65} \\
& \frac{65}{0}
\end{array}
$$

5. 1,473 people entered the park in 3 hours

491 people per $h r$.

$$
\frac{11025 \text { fiches } \div 9}{9 \text { theatres }} \div 9: \frac{1225}{1}
$$

491
$3 \longdiv { 1 4 7 3 }$
$\begin{array}{r}-12 \downarrow \\ \hline 27 \\ 27 \\ \hline 03 \\ -3 \\ \hline 0\end{array}$
6. 11,025 tickets sold at 9 theaters

1225 tickets per theatre
$9 \longdiv { 1 1 2 2 5 }$

$$
\begin{array}{r}
-9 \downarrow \\
\begin{array}{rr}
20 \\
18
\end{array} \\
\hline 22 \\
18 \\
45 \\
\frac{45}{0}
\end{array}
$$

$\approx 8.19$ meters per second
1.79 pounde per wk

$$
\begin{aligned}
& \frac{100 \mathrm{~m}}{12.2 \mathrm{sec} \div 12.2} \div \frac{8.2 \mathrm{~m}}{1 \mathrm{sec}} \\
& \frac{21.5 \text { pouds }}{12 \text { waks } \div 12}=\frac{1.79 \text { puene }}{1 \text { wak }} \\
& 12 . \begin{array}{r}
8.196 \\
\frac{1000.000}{976} 1 \\
\frac{120}{124} 1 \\
1180 \\
1098 \\
820
\end{array} \\
& \begin{array}{r}
1.791 \\
1 2 \longdiv { 2 1 . 5 0 0 } \\
\left.\frac{121}{95} \right\rvert\, 1 \\
\frac{84}{110} \\
108 \downarrow \\
20 \\
12
\end{array}
\end{aligned}
$$

8 flowers per vase
2 cups per serving
$\$ 12$ per ticket

$$
\frac{40}{5 \div 5}=\frac{8}{1} \quad \frac{6}{3} \div 3=\frac{2}{1} \quad \frac{120}{10 \div 10}=\frac{12}{1}
$$

$\$ 15$ per game

$$
\frac{75}{5} \div 5=\frac{15}{1}
$$

75 students per dis 8 penult per box

$$
\begin{gathered}
75 \\
8 \longdiv { 6 0 0 } \\
-56 \\
\hline 40 \\
\frac{40}{0}
\end{gathered}
$$

$$
\frac{32 \div 4}{4 \div 4}=\frac{8}{1}
$$

For numbers 15-19, decide which is the better buy. Show or explain your work.
15. You can buy 4 Granny Smith apples at Ben's Mart for $\$ 0.95$. SaveMost sells the same quality apples 6 for
\$1.49.
$\approx \$ 0.37$ per apple


SAVEMOST is Better!
$\approx \$ 0.25$ per apple


For numbers 15-19, decide which is the better buy. Show or explain your work.
16. A 17 -ounce box of cereal for $\$ 4.89$ of a 21 -ounce box for $\$ 5.69$

21 ounce bax is BETER
$\approx \mathbb{\$} 0.29$ per ounce

$$
\begin{array}{r}
.287 \\
17 \begin{array}{r}
4.890 \\
-34 \\
\hline 149 \\
136 \\
\hline 130 \\
119 \\
11
\end{array}
\end{array}
$$

$$
\approx \$ 0.27 \text { per once }
$$



For numbers 15-19, decide which is the better buy. Show or explain your work.
17. 6 cans of green beans for $\$ 1$ of 10 cans for $\$ 1.95$
$\approx 201$ per con
$\approx 174$ per can
$\$ 0.1 \overline{6}$ per can
\$0.195 per can



For numbers 15-19, decide which is the better buy. Show or explain your work.
18. 1 pound 4 ounces of meat for $\$ 4.99$ of 2 pounds 6 ounces for $\$ 9.75$ ( 1 pound $=16$ ounces)

$$
16+4=20 \text { ounces } \quad 16+16+6=38 \text { dunces }
$$


$\approx \$ 0.26$ per ounce

$$
\begin{array}{r}
.256 \\
3 8 \longdiv { 9 . 7 5 0 } \\
-76 \downarrow \\
215 \\
\frac{1904}{250} \\
\frac{228}{22}
\end{array}
$$

For numbers 15-19, decide which is the better buy. Show or explain your work.
19. A 2-liter bottle of soda for $\$ 1.39$ or a 12-pack of 12 -ounce cans for $\$ 3.49$ (Hint: 2 liters $=67.63$ ounces) 67.63 ounces

144 ounces $\approx 0.021$ per once $\approx 0.023$ per ounce


20. CARS Gas mileage is the average number of miles you can drive a car per gallon of gasoline. A test of a new car resulted in 2,250 miles being driven using 125 gallons of gas. Find the car's gas mileage.

$$
\frac{2250 \div 125}{125 \div 125}=\frac{18 \mathrm{mi}}{1 g}
$$

18 miles per gallon

$$
\begin{gathered}
125 \sqrt{2250} \\
\frac{-125}{1000} \\
\frac{1000}{0}
\end{gathered}
$$

21. ART An auction in New York City, a 2.55 -square inch portrait of George Washington sold for $\$ 1.2$ million. About how much did the buyer pay per square inch of the portrait?

$$
\frac{1.2 \text { million }}{2.55 \text { in }^{2}} \div 2.55
$$

$\$ 0.47$ million per in ${ }^{2}$.

$$
\approx 470,000 \mathrm{per} \mathrm{in}^{2}
$$


22. Last season, a baseball player scored 14 runs in 18 games. This season, the baseball player scored 12 runs in 15 games. Find the number of runs scored per game in each season. Round your answers to the nearest hundredth. Then identify the season in which the player scored more runs per game.

$$
\frac{14 r \div 18}{18 y} \div 18=\frac{0.7}{1} r
$$

$$
\frac{12 r}{15 g}=\frac{0.8 r}{1 g}
$$

$$
0.78 \text { russ per } g
$$

$$
0.80 \text { runs per game }
$$

$$
\begin{array}{r}
1 8 \longdiv { 1 4 7 } \\
-126 \downarrow \\
\hline 140 \\
-126 \downarrow \\
\hline 140
\end{array}
$$

$$
\begin{gathered}
1 5 \longdiv { 1 2 . 8 0 } \\
\frac{120}{0}
\end{gathered}
$$

23. At a lake there are 2 boat rental shops. Shop A charges $\$ 210$ for a 4 -hour rental, and shop B charges $\$ 228$ for a 6-hour rental. Which shop charges more per hour? How much more expensive is this shop?
52.5

4 | 210.0 |
| :---: |
| 10 |
| -80 |
| 20 |

$6 \longdiv { 3 8 }$

$$
\begin{array}{r}
-18 \\
\hline 48 \\
48 \\
\hline 0
\end{array}
$$



