Name: $\qquad$
5.8 Solving Ratio Problems - Notes

Example (1): Find the value of each variable.
a) 5: $x=40: 56$

b) $49: 35=14: n$


$$
\frac{49 n}{49}=\frac{\frac{490}{49}}{n=10}
$$

d) $3: 8=z: 64$


$$
\frac{18 y}{18}=\frac{126}{18}
$$



Example (2): This is a photo of a father and his daughter.
In the photo, the father's height is 8 cm and the daughter's height is 6 cm .
The father's actual height is $1.8 \mathrm{~m} . \times 100=180 \mathrm{~cm}$
What is the actual height of his daughter?
father's: daughter's

$\frac{8 x}{8}=\frac{1080}{8}$


Pedal: rear wheel


It turns
 about 4.7 times

$$
\begin{aligned}
& \frac{3 x}{3}=\frac{14}{3} \\
& x=4.6
\end{aligned}
$$

