$\qquad$ Period: $\qquad$

Solve the proportion.

1. $\frac{2}{3}=\frac{10}{2 x-19}$

Solve.
2. $\frac{2 x+4}{3 x-1}=\frac{1}{2}$

Simplify.
3. $(45 \div 3+23-2) \div 4 * 2+3^{2}$
4. $\frac{-4}{3} * \frac{18}{-5} * \frac{-21}{12}$

Solve the equation. Use properties of equality to justify each step.
5. $-6(-5 x+6)-100=194$
6. $0.8 x+3.1-4.3 x=7.7-1.2 x$
7. The average person commutes to work at a rate of 2908 centimeters/second. How fast are they traveling in miles/hour?
8. This morning Mr. Sacco filled up his gas tank. The price at the pump was $\$ 3.29$ per gallon. He then went inside to get his morning coffee. For a 20 oz . coffee he paid $\$ 1.29$. Write an explanation of what each piece of the following inequality represents in the context of the problem.

$$
3.29 g+1.29 \leq 50
$$

a. 1.29: $\qquad$
b. 3.29 : $\qquad$
c. 3.29 g : $\qquad$
d. 50 : $\qquad$
e. What is the appropriate vocabulary word for 1.29? $\qquad$
f. What is the appropriate vocabulary word for 3.29? $\qquad$
g. Why is an inequality used in this situation?

