Solve the proportion.

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

Solve.

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

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.
$$-6(-5x+6) - 100 = 194$$

6.
$$0.8x + 3.1 - 4.3x = 7.7 - 1.2x$$

| 7. | The average person commutes to work at a rate of 2908 centimeters/second. How fast are they traveling in miles/hour? |
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| 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. |
| | $3.29g + 1.29 \le 50$ |
| a. | 1.29: |
| b. | 3.29: |
| c. | 3.29g: |
| d. | 50: |
| | |
| e. | What is the appropriate vocabulary word for 1.29? |
| f. | What is the appropriate vocabulary word for 3.29? |
| | |
| g. | Why is an inequality used in this situation? |
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