8.3 Quiz Review

1.) Seven more than the quotient of a number and 2 is 10.

$$7 + \frac{x}{2} = 10$$

FLIP

2.) Five less than twice a number is 7.

$$2w - 5 = 7$$

3.) The sum of 9 and the quotient of x and 7 is 11.

$$9 + \frac{x}{7} = 11$$

FLIP

4.) One less than the product of four and a number is 11.
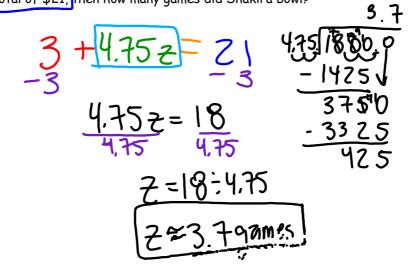
$$4a - 1 = 11$$

5.) Desiree made 100 cookies this week. She baked 4 more than three times the total she made last week. How many cookies did she bake last week?

$$4 + 3y = 100$$
$$-4 \qquad -4$$
$$\frac{3y}{3} = \frac{96}{3}$$

$$y = 32 \text{ cookies}$$

6.) Shakira went bowling with her friends. She paid $3 to rent shoes and then $4.75 for each game of bowling. If she spent a total of $21, then how many games did Shakira bowl?

$$3 + 4.75z = 21$$
$$-3 \qquad -3$$
$$\frac{4.75z}{4.75} = \frac{18}{4.75}$$

$$z = 18 \div 4.75$$

$$z \approx 3.7 \text{ games}$$

$$\begin{array}{r} 3.7 \\ 4.75\overline{)18.00.0} \\ -1425 \\ \hline 3750 \\ -3325 \\ \hline 425 \end{array}$$

7.) At a pizza eating competition, Davonne ate two more than twice as many slices as the runner-up. If Davonne ate 11 slices, then how many slices did the runner-up eat?

8.) Jasmine is 5 years younger than twice her sister's age. If Jasamine is 22 years old, then how old is her sister?