Error Analysis What is the error in the work?

71.

12
$$\bigcirc$$
 3y = 15
 2 3y = 3
 3 y = 1

the negative sign was left off of the 3y after the 12 was moved. Thus, you would be dividing by -3 not 3. The answer should be y = -1 72

$$\frac{m}{3} - 9 = -21$$

$$\frac{m}{3} - 9 + 9 = -21 + 9$$

$$3 \cdot \frac{m}{3} = -12 \cdot 3$$

$$m = -4$$

the error was dividing by 3 to get -4 when the correct step was to multiply by 3.

The answer should be m = -36

1. Beneath Earth's surface, the temperature increases 10°C every kilometer. Suppose that the surface temperature is 22°C, and at the bottom of a gold mine it is 45°C. Write and solve an equation to find the depth of the gold mine.

$$22 + 10x = 45$$

$$\downarrow$$

$$\lambda = 2.3 \text{ km}$$

Solving Equations Quiz.

After you finish the quiz turn it in and pick up a 1/2 sheet with three problems to work on.

What is a good name for this kind of equation? Multi-Step Equation

2.
$$7m + 8 - 2m + 13 = 75$$

$$5m + 21 - 21$$

$$-21 - 21$$

$$5m = 54$$

$$m = 75$$

$$-21$$

3.
$$6-2(Q+8)-9+5Q=31$$

$$2Q-12Q-12Q-145Q=31$$

$$3Q-1Q=31$$

$$419+19$$

$$3Q=50$$