#### Do Now:

Copy down the word problem. Set up an equation and solve.

One stalacite is 25 centimeters long and is growing at a rate of 1.2 centimeters per year. Another stalacite is 22 centimeters long and is growing at a rate of 1.8 centimeters per year. In how many years will the stalacites be the same length?

Clearing

$$250 + 18y = 220 + 18y$$

1. x = 8

15. k = 3

3. m = 4

17. w = 12

5. y = 6

(19.) 9 months

(7) z = 2

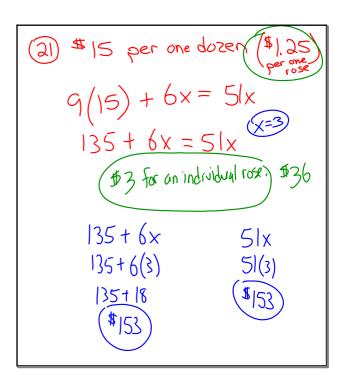
(21) \$3 each; \$153 total 23. q = 1/5

9.) h = -7 11. 45 units (x=7) 25. x = -2

13. a = 1

27. j = -2

10. 54 units (x-3)



# 6.3 Solving Equations Involving Fractions and Decimals

7.NS 7.EE

- SWBAT solve equations with fractions and decimals.
- SWBAT represent and analyze situations using algebraic symbols.

Calculators: Yes

### Solving an Equation Involving Decimals

- 1. Clear the decimals.
- 2. Solve.

$$39.95 + 4x = 54.95 + 2x$$

$$3995 + 400x = 5195 + 200x$$

$$x = 7.5$$

0.62a - 6.4 + 1.78a = 36

At the deli, Swiss cheese costs \$3.96 per pound and turkey costs \$4.76 per pound. You buy the same amount of each and spend \$13.08. Write and solve an equation to find out how many pounds of each you buy.

Solve the equation.

2. 
$$1.2n - 0.24 = 0.7n$$

3. 
$$8.3 - 8y = 1.2y + 6$$

### Exit Pass 6.3

Describe and correct the error in the solution of 1.5x + 0.25 = 1.6x

$$1.5x + 0.25 = 1.6x$$
  
 $15x + 25 = 16x$   
 $25 = x$ 

## **Reflection of Today's Lesson**

# 6.3 Solving Equations Involving Fractions and Decimals

7.NS 7.EE

- SWBAT solve equations with fractions and decimals.
- SWBAT represent and analyze situations using algebraic symbols.

Calculators: Yes

## **Homework**

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