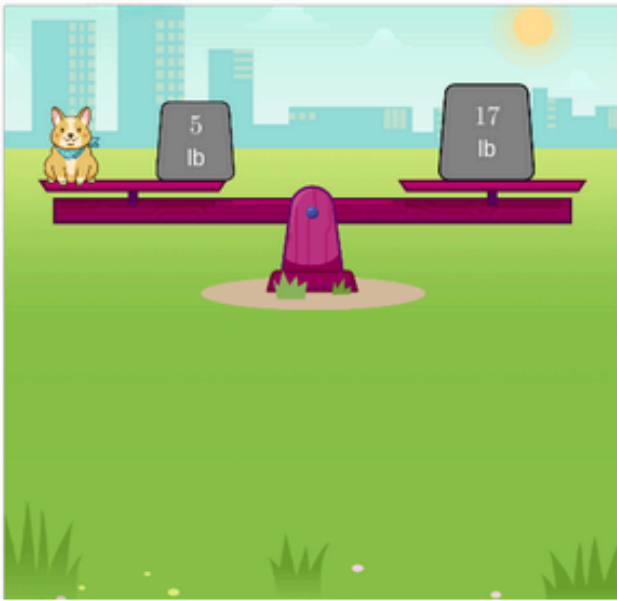## Weight and See

This dog and a 5-pound weight balance a 17-pound weight.
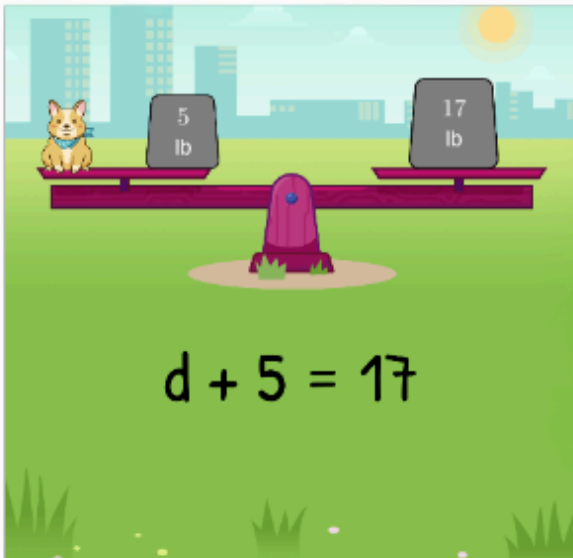
How much does the dog weigh?

"d" Is for Dog

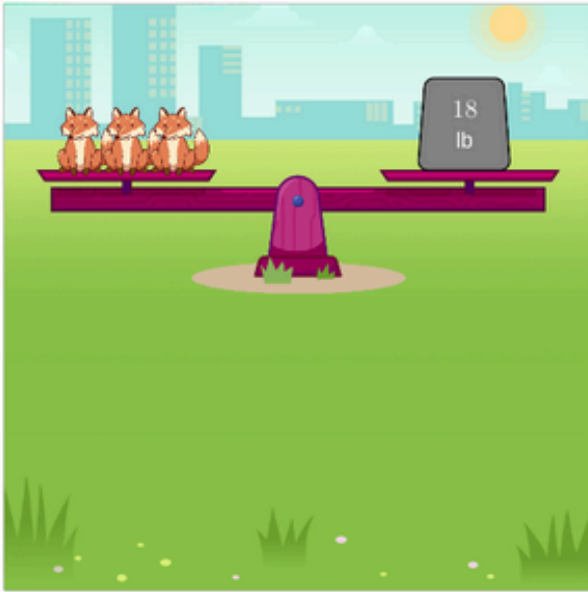Tariq wrote an *equation* to represent the situation.

He used the **variable** d to represent the dog's weight.

Explain how Tariq's equation is like the seesaw situation.

$$d + 5 = 17$$

What Does a Fox Weigh?

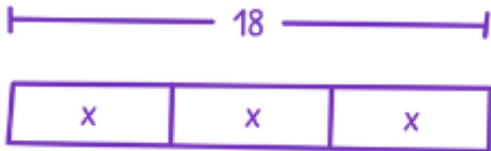These 3 foxes balance with an 18-pound weight. Each fox weighs the same amount.

a. Choose an equation that represents this situation.

- ○ $3 + x = 18$
- ○ $3 \cdot x = 18$
- ○ $x + x + x = 18$
- ○ $3 + 18 = x$

18 lb

Equations and Tape Diagrams

Tariq drew a tape diagram to determine the weight of each fox.

How are the tape diagram and the equations alike?

$$3 \cdot x = 18 \qquad x + x + x = 18$$

| 18 |
| x | x | x |

Weight It Out

This cat and a 3.1-pound weight balance a 9.3-pound weight.

How much does the cat weigh?

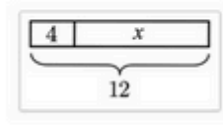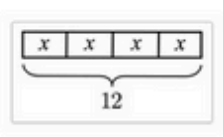Use the tape diagram if it helps you with your thinking.

$$x + 3.1 = 9.3$$

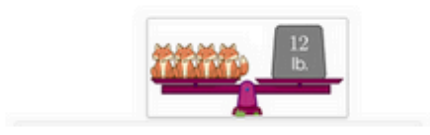Group the cards that represent the same situation.

$x = 8$

$x + x + x + x = 12$

$4 \cdot x = 12$

$4 + x = 12$

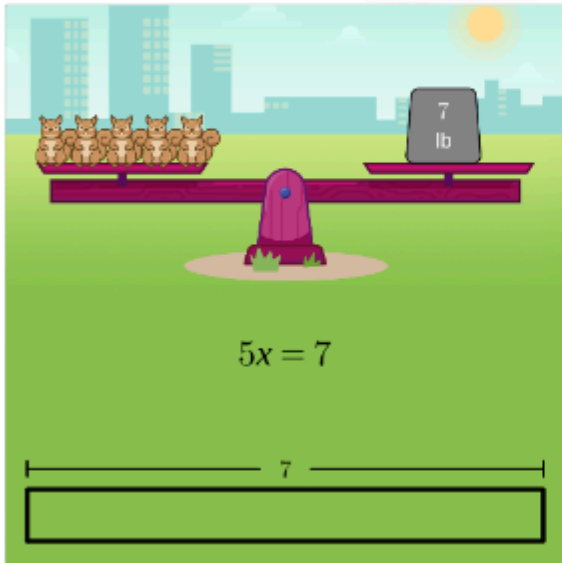| x	x	x	x

12

4	x

12

$x = 3$

Squirrel!

These 5 squirrels balance with a 7-pound weight. Each squirrel weighs the same amount.

How much does each squirrel weigh?

Draw a tape diagram if it helps with your thinking.

$$5x = 7$$

7

SYNTHESIS

4	x

12

$$4 + x = 12$$

$$x = 8$$

x	x	x	x

12

$$4 \cdot x = 12$$

$$x + x + x + x = 12$$

$$x = 3$$