# KECALL

### Inverse Operations

Operation	Multiplication	Subtraction	Square	Division	Addition
	×	-	X <sup>2</sup>	÷	+
Inverse	*				





**Do Now:** Solve for the variable.

$$g^2 = 81$$

$$225 = w^2$$











### Solving Basic x<sup>2</sup> Equations

#### Steps:

- Isolate the x<sup>2</sup> term.
- Separate coefficient by multiplying and dividing.
- Take the square root of each side (± roots!).
- Check.

$$z^2 - 169 = 0$$

$$2b^2 = b^2 + 49$$

### Solving Basic x<sup>2</sup> Equations

#### Let's Practice...

Steps

- Isolate the squared variable term.
- Separate coefficient by multiplying and dividing.
- Take the square root of each side (± roots).
- Check.

$$z^2 - 3^2 = 4^2$$

$$7 + z^2 = 16$$

### Solving Basic $\sqrt{x}$ Equations

#### Steps:

- Isolate the square root expression.
- Separate coefficient by multiplying and dividing.
- Square each side.Check.

$$\sqrt{\frac{n}{5}} = 3$$

$$\sqrt{7y} = 14$$

## More Solving Basic $\sqrt{x}$ Equations

#### Steps:

- **Isolate** the square root expression.
- · Separate coefficient by multiplying and dividing.
- Square each side.Check.

$$\sqrt{\frac{n}{3}} = 4$$

$$3\sqrt{x+1} = 27$$