

## ALGEBRA

**Solving and explaining simple one-step equations using basic whole-number facts:**

$$x + 7 = 15$$

what number + 7 = 15?

$$8 + 7 = 15$$

$$x = 8$$

Let's try

$$10 -$$

$$10 -$$

$$10 - 8 = 2$$

$$y = 8$$



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## Solving and explaining simple one-step equations using inverse operations involving whole numbers:

Addition and subtraction are **inverse operations**.

$$5 + 3 = 8 \quad \leftarrow \text{you can reverse it} \rightarrow 8 - 3 = 5$$

Multiplication and division are **inverse operations** too.

$$2 \times 3 = 6 \quad \leftarrow \text{you can reverse it} \rightarrow 6 \div 3 = 2$$

**You can use inverse operations to figure out these one-step algebra problems as well:**

$$r \div 2 = 5$$

You can find

$$5 \times 2 = 10$$

$$r \div 2 = 5$$

$$r = 10 \text{ (because } 5 \times 2 = 10 \text{)}$$

**Let's try another one:**

$$b \times 3 = 15$$

Dividing  $15 \div 3 =$

$$15 \div 3 = 5$$

$$b \times 3 = 15$$

$$b = 5 \text{ (because } 15 \div 3 = 5 \text{)}$$



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