$\qquad$ Date $\qquad$

## Writing Equations for Two Step Problems

> In this worksheet, we will practice writing equations that can be used to solve two-step mixed operation problems.
> For example: Jenny is twice as old as Lucie. Lucy is 2 years older than Stacie. How old is Jenny? The equation used to solve this problem would be $\mathrm{J}=(\mathrm{S}+2) \times 2$

## Exercise Questions:

1. Marcie has twice as many dolls as her sister Stacie. Stacie has 3 less dolls than her friend Tracie. How many dolls does Marcie have?
2. James has 3 more cars than his brother Sam. Sam has twice as many cars as his cousin Mike. How many cars does James have?
3. Ella has 8 less stuffed animals than her little sister Anna. Anna has twice as many stuffed animals as her little brother Nathan. How many stuffed animals does Ella have?
4. Marcus is twice as tall as Ben. Ben is 6 inches shorter than John. How tall is Marcus?
5. Beth has ten more flowers than Ruth. Ruth has twice as many flowers as Lisa. How many flowers does Beth have?
$\qquad$ Date $\qquad$

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operation problems.
For example: Jenny is twice as old as Lucie. Lucy is 2 years older than Stacie. How old is Jenny?
The equation used to solve this problem would be J=(S + 2) x 2
```


## Answer Key

1. Marcie has twice as many dolls as her sister Stacie. Stacie has 3 less dolls than her friend Tracie. How many dolls does Marcie have?
$\qquad$
$M=2(T-3)$
2. James has 3 more cars than his brother Sam. Sam has twice as many cars as his cousin Mike. How many cars does James have?
$\qquad$
$J=(2 \times M)+3$
3. Ella has 8 less stuffed animals than her little sister Anna. Anna has twice as many stuffed animals as her little brother Nathan. How many stuffed animals does Ella have?
$E=(2 \times N)-8$
4. Marcus is twice as tall as Ben. Ben is 6 inches shorter than John. How tall is Marcus?
$\qquad$ $M=2 \times(J-6)$
5. Beth has ten more flowers than Ruth. Ruth has twice as many flowers as Lisa. How many flowers does Beth have?

$$
B=(2 \times L)+10
$$

