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## Reteaching Page

### 2.3 Equations and Their Solutions

Equations are mathematical sentences that have an equals sign. The equals sign shows you that the quantities on either side are equal in value.
$4+3=7$
$6-2=7-3$
4* $8=35-3$

When working with variables in equations, you can check the answer by substituting a given value for the variable. If the result is equal the given value is the correct solution.

```
\(\boldsymbol{n}+4=8\), when \(\boldsymbol{n}\) is 4
\(4+4=8\)
    \(8=8\)
\(\boldsymbol{n}\) is 4 is a solution to the problem
```

```
\(\boldsymbol{n}-7=12\), when \(\boldsymbol{n}\) is 8
\(8-7=12\)
    \(1 \neq 12\)
    \(\boldsymbol{n}\) is 8 is not a solution to the problem.
```

Use substitution to determine if the given value for $n$ is a solution to the following equations.
$\qquad$ 1) $\boldsymbol{n}-7=12$, when $\boldsymbol{n}=20$
$\qquad$
2) $\boldsymbol{n}+38=52$, when $\boldsymbol{n}=14$
$\qquad$
$\qquad$
3) $6 \boldsymbol{n}=66$, when $\boldsymbol{n}=11$
$\qquad$
$\qquad$
4) $n \div 8=24$, when $n=182$
$\qquad$
$\qquad$
$\qquad$ 5) $n$ * $4-3+\boldsymbol{n}=27$, when $n=6$
$\qquad$
$\qquad$
$\qquad$

