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## SAT Math Test Problem Children: Solving Simple Equations

(Part 2)

## PROBLEMS

1. If $\frac{x-1}{3}=k$ and $k=3$, what is the value of $x$ ?
2. If $\frac{x-1}{4}=k$ and $k=5$, what is the value of $x$ ?
3. If $\frac{x-1}{2}=k$ and $k=4$, what is the value of $x$ ?
4. If $\frac{x-1}{4}=k$ and $k=4$, what is the value of $x$ ?
5. 

$$
\sqrt{x-a}=x-4
$$

If $a=2$, what is the solution set of the equation above?
6.

$$
\sqrt{x-a}=x-4
$$

If $a=4$, what is the solution set of the equation above?
7.

$$
\sqrt{x-a}=x-5
$$

If $a=-15$, what is the solution set of the equation above?
8.

$$
\sqrt{x-a}=x-3
$$

If $a=1$, what is the solution set of the equation above?
9. If $a=5 \sqrt{2}$ and $3 a=\sqrt{2 x}$, what is the value of $x$ ?
10. If $a=7 \sqrt{2}$ and $3 a=\sqrt{2 x}$, what is the value of $x$ ?
11. If $a=3 \sqrt{3}$ and $3 a=\sqrt{3 x}$, what is the value of $x$ ?
12. If $a=4 \sqrt{2}$ and $2 a=\sqrt{2 x}$, what is the value of $x$ ?
"Only he who never plays, never loses."

