## 

1. $x+0.2 x$
2. $x-0.2 x$
3. $x+0.8 x$
4. $x+(1 / 4) x$
5. $x-(1 / 4) x$

## Ule VIT EQUAL RATIOS

The equations below all involve two equal ratios. Find the value of $x$ that will make the ratios equal. You may want to use trial and error with your calculator.
6. $\frac{x}{4}=\frac{6}{1}$
7. $\frac{3}{x}=\frac{5}{7}$
8. $\frac{x}{3}=\frac{5}{7}$
9. $\frac{3}{1}=\frac{6}{x+7}$
10. $\frac{4}{5}=\frac{6}{x+7}$

## RSYIT HITEYIT EQUATIONS

11. For each equation, use trial and error to find a value of $n$ that makes it true.
a. $3 n+10=5 n$
b. $5 n+10=3 n$
c. $7 n+10=8 n$
d. $8 n+10=7 n$
12. Use trial and error or the cover-up method to solve these equations.
a. $2(x+5)=8$
b. $5+2(x+4)=19$
c. $3(2 x+4)-7=11$
d. $-4(10 x-3)-6=-14$
13. Find a positive integer that satisfies each equation.
a. $3 n-1=47$
b. $n^{2}-5=59$
14. Find a negative integer and a positive integer that satisfy the equation

$$
n^{2}-n=20
$$

